

Facility ID: 1413000187 Issuance type: Title V Draft Permit

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In addition to the terms and conditions, hyperlinks have been inserted into the document so you may more readily access the section of the document you wish to review.

Finally, the term language under "Part III" and before "I. Applicable Emissions Limitations..." has been added to aid in document conversion, and was not part of the original issued permit.

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Part II - Specific Facility Terms and Conditions

a State and Federally Enforceable Section

- 40 CFR, Part 68 is an applicable requirement for this facility. The permittee shall submit a Risk Management Plan, pursuant to 40 CFR, Part 68, to the appropriate designated agency and comply with all appropriate subparts by no later than June 20, 1999.
40 CFR, Part 68 is an applicable requirement for this facility. The permittee shall submit a Risk Management Plan, pursuant to 40 CFR, Part 68, to the appropriate designated agency and comply with all appropriate subparts by no later than June 20, 1999.

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b State Only Enforceable Section

- The following insignificant emissions unit(s) are located at this facility:

B004 Fire Pump #1, 2, 3
 F001 Plant Roadways
 F002 Coal Storage
 F003 Coal Handling
 F004 Ash Handling
 G001 GDF
 P021 Batch & Draw Furnaces, Salt Quench Tanks and Washers
 P026 Pusher Furnace #5
 P027 Pusher Furnace #4
 P028 Reaction Furnaces 1-5
 P029 Pusher Furnace #3
 P030 Pusher Furnace #2
 P036-P038 Grinders
 P039 Maintenance Equipment
 P040 Maintenance Equipment
 P064 W.W. Treatment Tank
 P065-P177 Various Machining Operations Equipment
 T010 15,000 Gallon Waste Oil Tank
 T011 15,000 Gallon Waste Oil Tank
 T012 3000 Gallon Torque Fluid Tank
 T013 2-30,000 Gallon Hydraulic Fluid Tank
 T014 3-30,000 Gallon Transmission Fluid Tank
 T015 30,000 Gallon Standby Tank
 T018 15,000 Gallon Standby Tank
 T019 15,000 Gallon Lube Oil Tank
 T020 15,000 Gallon Lube Oil Tank
 T021 10,000 Gallon Standby Tank
 T022 10,000 Gallon Standby Tank
 Z005 Burnishers
 Z006 Grinders
 Z007 Deburrers
 Z008 Drills
 Z009 Bores
 Z010 Parts Washer
 Z011 Lathe
 Z012 Hone
 Z013 Rollers
 Z014 Filters
 Z015 Sanders
 Z016 Saw
 Z017 Transfer Line
 Z018 Welder
 Z019 W.W. Treatment System
 Z020 Quench Tank

Z021 Markers

Z022 Solvents
 Z023 Paints
 Z024 Lubricants
 Z025 Adhesives
 Z026 Methanol
 Z027 Lacquer Thinner
 Z028 Misc. VOC
 Z029 Freons/CFC/HCFC

Each insignificant emissions unit at this facility must comply with all applicable State and federal regulations, as well as any emission limitations and/or control requirements contained within a permit to install for the emissions unit.

The following insignificant emissions unit(s) are located at this facility:

B004 Fire Pump #1, 2, 3
 F001 Plant Roadways
 F002 Coal Storage
 F003 Coal Handling
 F004 Ash Handling
 G001 GDF
 P021 Batch & Draw Furnaces, Salt Quench Tanks and Washers
 P026 Pusher Furnace #5
 P027 Pusher Furnace #4
 P028 Reaction Furnaces 1-5
 P029 Pusher Furnace #3
 P030 Pusher Furnace #2
 P036-P038 Grinders
 P039 Maintenance Equipment
 P040 Maintenance Equipment
 P064 W.W. Treatment Tank
 P065-P177 Various Machining Operations Equipment
 T010 15,000 Gallon Waste Oil Tank
 T011 15,000 Gallon Waste Oil Tank
 T012 3000 Gallon Torque Fluid Tank
 T013 2-30,000 Gallon Hydraulic Fluid Tank
 T014 3-30,000 Gallon Transmission Fluid Tank
 T015 30,000 Gallon Standby Tank
 T018 15,000 Gallon Standby Tank
 T019 15,000 Gallon Lube Oil Tank
 T020 15,000 Gallon Lube Oil Tank
 T021 10,000 Gallon Standby Tank
 T022 10,000 Gallon Standby Tank
 Z005 Burnishers
 Z006 Grinders
 Z007 Deburrers
 Z008 Drills
 Z009 Bores
 Z010 Parts Washer
 Z011 Lathe
 Z012 Hone
 Z013 Rollers
 Z014 Filters
 Z015 Sanders
 Z016 Saw
 Z017 Transfer Line
 Z018 Welder
 Z019 W.W. Treatment System
 Z020 Quench Tank
 Z021 Markers
 Z022 Solvents
 Z023 Paints
 Z024 Lubricants
 Z025 Adhesives
 Z026 Methanol
 Z027 Lacquer Thinner
 Z028 Misc. VOC
 Z029 Freons/CFC/HCFC

Each insignificant emissions unit at this facility must comply with all applicable State and federal regulations, as well as any emission limitations and/or control requirements contained within a permit to install for the emissions unit.

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Part III - Terms and Conditions for Emissions Units

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Facility ID: 1413000187 Emissions Unit ID: B001 Issuance type: Title V Draft Permit

A. State and Federally Enforceable Section

The following emissions unit terms and conditions are federally enforceable with the exception of those listed below which are enforceable under state law only.

1. None.

I. Applicable Emissions Limitations and/or Control Requirements

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
145 MMBTU/HR Coal and Waste Oil Fired Boiler #1 with Multiclones and an ESP.	See A.VI.	Visible emissions shall not exceed 20 percent opacity, as a six-minute average, except as specified by rule.
	OAC 3745-17-07(A)	
	See A.VI.	0.18 lb PM/MMBtu of actual heat input.
	OAC 3745-17-10(C)(1)	1.6 lbs SO2/MMBtu of actual heat input.
See A.VI.		
	OAC 3745-18-19(C)	

2. Additional Terms and Conditions

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II. Operational Restrictions

1. The quality of the coal burned in this emissions unit shall meet the following specifications on an as-received basis:
 - a. A combination of ash content and heat content sufficient to comply with the PM emission limitation of 0.18 LB PM/MMBtu of actual heat input.
 - b. A combination of sulfur content and heat content which is sufficient to comply with the allowable sulfur dioxide emission limitation of 1.6 LBS SO2/MMBtu of actual heat input.

Compliance with the above-mentioned specifications shall be determined by using a weighted, arithmetic average of the analytical results provided by the permittee or coal supplier for all shipments of coal during each calendar month.
2. The quality of the waste oil burned in this emissions unit shall meet a sulfur content that is sufficient to comply with the allowable SO2 emission limit specified in section A.I. above.
3. The permittee shall operate the ESP during any operation of this emissions unit, except during periods of start-up and shutdown that are exempted pursuant to OAC rules 3745-17-07(A)(3)(a)(i) and 3745-17-07(A)(3)(b)(i), or during malfunctions that are exempted pursuant to OAC rule 3745-17-07(A)(3)(c).
4. The primary and secondary voltage (V) and current (amps) recorded at each transformer set within the ESP shall fall within the range of values recorded during the most recent emission test which showed that the emissions unit was in compliance with the particulate (PM) emission limit.
5. The spark rate (sparks/minute) recorded in each section within the ESP shall not exceed the highest value recorded during the most recent emission test which showed that the emissions unit was in compliance with the particulate (PM) emission limit.

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III. **Monitoring and/or Record Keeping Requirements**

1. Coal Sampling and Analysis:

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.

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 Isothermal Bomb Calorimeters, respectively. Alternative, equivalent methods may be used upon written approval from the appropriate Ohio EPA District Office or local air agency.

2. Coal Usage and SO₂ Emission Rate:

The permittee shall maintain monthly records of the following:

- a. the total quantity of coal received,
- b. the results of the analyses for ash content,
- c. the results of the analyses for sulfur content,
- d. the results of the analyses for heat content, and
- e. the average SO₂ emission rate (in LBS/MMBtu) calculated pursuant to equation in OAC rule 3745-18-04 (G)(1).

3. Waste Oil Sampling and Analysis:

The permittee shall collect a representative grab sample of oil that is burned in this emissions unit. The permittee shall perform the analyses for sulfur content and heat content in accordance with the following ASTM methods: ASTM method D4294, ASTM method D240, or ASTM method 6010 for sulfur content; and ASTM method D240 for heat content. Alternative, equivalent methods may be used upon written approval by the appropriate Ohio EPA District Office or local air agency.

4. Waste Oil Usage and SO₂ Emission Rate

For waste oil burned in this emissions unit, the permittee shall maintain records of the total quantity of oil burned, the permittee's analyses for sulfur content and heat content, and the calculated sulfur dioxide emission rate (in lbs/MMBtu). (The sulfur dioxide emission rate shall be calculated in accordance with the formula specified in OAC rule 3745-18-04(F).)

5. The permittee shall operate and maintain a temperature monitor and recorder that measures and records the temperature of the boiler exhaust gases entering the ESP during:

- a. all periods of start-up until the ESP is operational or until the inlet temperature of the ESP achieves the temperature level specified in OAC rule 3745-17-07(A)(3)(a)(i); and
- b. all periods of shutdown until the inlet temperature of the ESP drops below the temperature level specified in OAC rule 3745-17-07(A)(3)(b)(i).

The temperature monitor and recorder shall be installed, calibrated, operated, and maintained in accordance with manufacturer's recommendations, with any modifications deemed necessary by the permittee, and shall be capable of accurately measuring the temperature of the boiler exhaust gases in units of degrees Fahrenheit.

6. The permittee shall continuously monitor and record the following information on an hourly basis during any operation of the ESP:

- a. the primary and secondary voltage, in volts (V), and current, in milliamps, for each transformer set in the ESP; and
- b. the spark rate, in sparks/minute, in each section of the ESP.

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IV. **Reporting Requirements**

1. Quarterly reports shall be submitted concerning the quantity and quality 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;

- 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 SO₂ emissions rate (lbs SO₂/MMBtu of actual heat input) from the coal received.
2. The permittee shall submit deviation (excursion) reports which identify all periods of time during start-up and shutdown of the emissions unit when the ESP was not in operation and the temperature of the boiler exhaust gases exceeded the temperature levels specified in OAC rule 3745-17-07(A)(3)(a)(i) and (b)(i).
3. The permittee shall submit deviation (excursion) reports which identify:
- a. any record of a primary or secondary voltage or current values which exceeds the range of values recorded for each transformer set during the most recent emission test which showed that the emissions unit was in compliance with the particulate (PM) emission limit; and
 - b. any record of a spark rate which exceeds the highest value recorded in each section within the ESP during the most recent emission test which showed that the emissions unit was in compliance with the particulate (PM) emission limit.

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V. **Testing Requirements**

1. Visible Emission Limit:
- Compliance with OAC 3745-17-07(A) shall be demonstrated by the methods outlined in OAC 3745-17-03 (B)(3).
2. Particulate Emission Limit:
- The permittee shall conduct, or have conducted, emission testing for this emissions unit in accordance with the following requirements:
- a. The emission testing shall be conducted within 3 months after issuance of this permit and approximately 2.5 years after permit issuance.
 - b. The emission testing shall be conducted to demonstrate compliance with the allowable mass emission rate of 0.18 lb PM/MMBtu of actual heat input.
 - c. The following test method shall be employed to demonstrate compliance with the allowable mass emission rate:
Method 5 of 40 CFR Part 60, Appendix A.
 - d. During each test run, the primary and secondary voltage and current at each ESP transformer set and the spark rate in each ESP section shall be recorded at least every 5 minutes.

The recorded primary and secondary voltage and current values shall be used to establish an acceptable operating range or value for each ESP operating parameter.
 - e. The test shall be conducted while the emissions unit is operating at or near its maximum capacity, unless otherwise specified or approved by the appropriate Ohio EPA District Office or local air agency. Not later than 30 days prior to the proposed test date(s), the permittee shall submit an "Intent to Test" notification to the appropriate Ohio EPA District Office or local air agency. The "Intent to Test" notification shall describe in detail the proposed test methods and procedures, the emissions unit operating parameters, the time(s) and date(s) of the test, and the person(s) who will be conducting the test. Failure to submit such notification for review and approval prior to the test(s) may result in the Ohio EPA District Office's or local air agency's refusal to accept the results of the emission test.

Personnel from the appropriate Ohio EPA District Office or local air agency shall be permitted to witness the test, examine the testing equipment, and acquire data and information necessary to ensure that the operation of the emissions unit and the testing procedures provide a valid characterization of the emissions from the emissions unit and/or the performance of the control equipment.

A comprehensive written report on the results of the emissions test shall be signed by the person or persons responsible for the tests and submitted to the Ohio EPA District Office or local air agency within 30 days following completion of the test(s).
3. Sulfur Dioxide Limit:
- a. Compliance with the SO₂ emission limit shall be demonstrated by the recordkeeping requirements in section A.III. 1., 2., and 3. of this permit.
 - b. If testing is required to demonstrate compliance with the allowable emission limit of 1.6 lbs SO₂/MMBtu of actual heat input, testing shall be conducted using the following method:

Method 6 of 40 CFR Part 60, Appendix A.

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VI. **Miscellaneous Requirements**

1. The following terms and conditions shall supersede all the air pollution control requirements contained in permit to install number 18-061 issued for this emissions unit on July 19, 1979:

Part III, Sections: A.I.-V. and B.I.-V.

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Facility ID: 1413000187 Emissions Unit ID: B001 Issuance type: Title V Draft Permit

B. State Enforceable Section

The following emissions unit terms and conditions are federally enforceable with the exception of those listed below which are enforceable under state law only.

1. None.

I. Applicable Emissions Limitations and/or Control Requirements

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
145 MMBTU/HR Coal and Waste Oil Fired Boiler #1 with Multiclones and an ESP.	See A.VI. OAC 3745-31-05	See T&C B.I.2.2.a.

2. Additional Terms and Conditions

- a. Annual emissions shall not exceed the following limitations:

1. PM 87 TPY
SO2 1016 TPY
NOx 444.6 TPY

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II. Operational Restrictions

1. The permittee may burn waste oil mixed with coal in this emissions unit at a maximum rate not to exceed 10 gallons of waste oil per ton of coal burned. The combined oil usage for emissions units B001, B002, and B003 shall not exceed 150,000 gallons per year. All waste oil must be generated at this facility.
2. Prior to combusting waste oil in this emissions unit, the permittee shall perform the reporting requirements in section B.IV.2. of this permit.
3. All waste oil burned in this emissions unit shall meet the following specifications:

Contaminant/Property Allowable Concentration

- Arsenic 5 ppm, maximum
- Cadmium 2 ppm, maximum
- Chromium 10 ppm, maximum
- Lead 100 ppm, maximum
- PCB's 50 ppm, maximum
- Total Halogens 4000 ppm, maximum
- Mercury 1 ppm, maximum
- Flash Point 100 degrees F, minimum
- Heat Content 135,000 Btu/gallon, minimum

Waste oil containing more than 1000 ppm total halogens is presumed to be a hazardous waste under the rebuttable presumption provided under paragraph C of OAC rule 3745-58-50. Therefore, the permittee may burn waste oil exceeding 1000 ppm of total halogens (but less than 4000 ppm maximum) only if the permittee has demonstrated to the Ohio EPA's Division of Solid and Hazardous Waste Management that the waste oil does not contain any hazardous wastes.

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III. Monitoring and/or Record Keeping Requirements

1. Waste Oil Sampling and Analysis

The permittee shall collect a representative grab sample of waste oil for burning in this emissions unit. The permittee shall perform the analyses for sulfur content and heat content in accordance with the following ASTM methods: ASTM method D4294, ASTM method D240, or ASTM method 6010 for sulfur content; and ASTM method D240 for heat content. Alternative, equivalent methods may be used upon written approval by the appropriate Ohio EPA District Office or local air agency.

The analysis shall identify the following information:

- a. quantity of waste oil burned,
- b. the Btu value of the waste oil,
- c. the flash point of the waste oil,
- d. the arsenic content,
- e. the cadmium content,
- f. the chromium content,
- g. the lead content,
- h. the PCB content,
- i. the total halogen content, and
- j. the mercury content.

Each analysis shall be kept in a readily accessible location for at least 5 years and shall be made available to the Director (the appropriate Ohio EPA District Office or local air agency) upon verbal or written request. The Director or any authorized representative of the Director may require or may conduct periodic, detailed chemical analyses through an independent laboratory of any waste oil shipment received by this facility, of any waste oil stored at this facility, or of any waste oil sampled.

2. The permittee shall maintain monthly records of the total quantity of waste oil burned in emissions units B001, B002, and B003, in gallons and in gallons per ton of coal burned. These records should include the amount of oil burned that month, as well as, the total amount of oil burned to date for the calendar year.
3. The permittee shall maintain annual records of the tons of sulfur dioxide, particulates, and nitrogen oxides emitted from this emissions unit.

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IV. Reporting Requirements

1. The permittee shall submit an annual report which summarizes the following information for the waste oil burned: gallons per ton of coal for each month and gallons per year. The report shall also summarize the annual emissions of PM, SO₂, and NO_x in tons per year. This report shall be submitted by February 15th of each calendar year.
2. The permittee shall notify the USEPA and the Ohio EPA if any of the waste oil exceeds the waste oil specifications. An identification number from USEPA shall be obtained prior to the combustion of any waste oil.

Before the permittee burns any off-specification waste oil, the permittee must provide a one-time, written and signed notice certifying that:

- a. the company has notified USEPA of its waste oil management activities and that the notice included the location and description of those activities; and
- b. the company will burn the waste oil only in an industrial furnace or boiler identified in 40 CFR Part 266.41 (b) and OAC rule 3745-58-42.

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V. Testing Requirements

1. Compliance with the TPY NO_x limitation shall be established using the following calculations:

Multiply the total annual heat input (in mmBtu's) by the emission factor of 0.70 pound per MMBtu (established through a stack test). Divide that product by 2000 pounds to obtain TPY.
2. Compliance with the TPY SO₂ limitation shall be determined using equations outlined in OAC 3745-18-04(F) (1) and (2) to establish emission factors for solid and liquid fuels. The actual TPY shall be the combined total of emissions determined by multiplying the emission factors obtained above by the heat content and the usage rate of both fuels in tons of coal and gallons of waste oil burned per year and 0.0005 (converts to TPY).
3. Compliance with the TPY particulate limitation shall be established using the following calculations:

Multiply the actual pounds of PM per mmBtu of actual heat input as determined by the most recent stack test by the total heat input (in million Btu's) from the annual coal usage. Divide that total by 2000 pounds to obtain TPY.
4. Compliance with the waste oil specifications shall be demonstrated by the recordkeeping requirements in section B.III.1. of these terms and conditions.

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VI. **Miscellaneous Requirements**

None

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Facility ID: 1413000187 Emissions Unit ID: B002 Issuance type: Title V Draft Permit

A. State and Federally Enforceable Section

The following emissions unit terms and conditions are federally enforceable with the exception of those listed below which are enforceable under state law only.

1. None.

I. Applicable Emissions Limitations and/or Control Requirements

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
61 MMBTU/HR Coal and Waste Oil Fired Boiler #2 with Multiclones and an ESP.	See A.VI.	Visible emissions shall not exceed 20 percent opacity, as a six-minute average, except as specified by rule.
	OAC 3745-17-07(A)	
	See A.VI.	0.23 lb PM/MMBtu of actual heat input.
	OAC 3745-17-10(C)(1)	
	See A.VI.	1.6 lbs SO2/MMBtu of actual heat input.
	OAC 3745-18-19(C)	

2. Additional Terms and Conditions

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II. Operational Restrictions

1. The quality of the coal burned in this emissions unit shall meet the following specifications on an as-received basis:
 - a. A combination of ash content and heat content sufficient to comply with the PM emission limitation of 0.23 LB PM/MMBtu of actual heat input.
 - b. A combination of sulfur content and heat content which is sufficient to comply with the allowable sulfur dioxide emission limitation of 1.6 LBS SO2/MMBtu of actual heat input.

Compliance with the above-mentioned specifications shall be determined by using a weighted, arithmetic average of the analytical results provided by the permittee or coal supplier for all shipments of coal during each calendar month.
2. The quality of the waste oil burned in this emissions unit shall meet a sulfur content that is sufficient to comply with the allowable SO2 emission limit specified in section A.I. above.
3. The permittee shall operate the ESP during any operation of this emissions unit, except during periods of start-up and shutdown that are exempted pursuant to OAC rules 3745-17-07(A)(3)(a)(i) and 3745-17-07(A)(3)(b)(i), or during malfunctions that are exempted pursuant to OAC rule 3745-17-07(A)(3)(c).
4. The primary and secondary voltage (V) and current (amps) recorded at each transformer set within the ESP shall fall within the range of values recorded during the most recent emission test which showed that the emissions unit was in compliance with the particulate (PM) emission limit.
5. The spark rate (sparks/minute) recorded in each section within the ESP shall not exceed the highest value recorded during the most recent emission test which showed that the emissions unit was in compliance with the particulate (PM) emission limit.

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III. **Monitoring and/or Record Keeping Requirements**

1. Coal Sampling and Analysis:

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.

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 Isothermal Bomb Calorimeters, respectively. Alternative, equivalent methods may be used upon written approval from the appropriate Ohio EPA District Office or local air agency.

2. Coal Usage and SO₂ Emission Rate:

The permittee shall maintain monthly records of the following:

- a. the total quantity of coal received,
- b. the results of the analyses for ash content,
- c. the results of the analyses for sulfur content,
- d. the results of the analyses for heat content, and
- e. the average SO₂ emission rate (in LBS/MMBtu) calculated pursuant to equation in OAC rule 3745-18-04 (G)(1).

3. Waste Oil Sampling and Analysis:

The permittee shall collect a representative grab sample of oil that is burned in this emissions unit. The permittee shall perform the analyses for sulfur content and heat content in accordance with the following ASTM methods: ASTM method D4294, ASTM method D240, or ASTM method 6010 for sulfur content; and ASTM method D240 for heat content. Alternative, equivalent methods may be used upon written approval by the appropriate Ohio EPA District Office or local air agency.

4. Waste Oil Usage and SO₂ Emission Rate

For waste oil burned in this emissions unit, the permittee shall maintain records of the total quantity of oil burned, the permittee's analyses for sulfur content and heat content, and the calculated sulfur dioxide emission rate (in lbs/MMBtu). (The sulfur dioxide emission rate shall be calculated in accordance with the formula specified in OAC rule 3745-18-04(F).)

5. The permittee shall operate and maintain a temperature monitor and recorder that measures and records the temperature of the boiler exhaust gases entering the ESP during:

- a. all periods of start-up until the ESP is operational or until the inlet temperature of the ESP achieves the temperature level specified in OAC rule 3745-17-07(A)(3)(a)(i); and
- b. all periods of shutdown until the inlet temperature of the ESP drops below the temperature level specified in OAC rule 3745-17-07(A)(3)(b)(i).

The temperature monitor and recorder shall be installed, calibrated, operated, and maintained in accordance with manufacturer's recommendations, with any modifications deemed necessary by the permittee, and shall be capable of accurately measuring the temperature of the boiler exhaust gases in units of degrees Fahrenheit.

6. The permittee shall continuously monitor and record the following information on an hourly basis during any operation of the ESP:

- a. the primary and secondary voltage, in volts (V), and current, in milliamps, for each transformer set in the ESP; and
- b. the spark rate, in sparks/minute, in each section of the ESP.

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IV. **Reporting Requirements**

1. Quarterly reports shall be submitted concerning the quantity and quality 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;

- 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 SO₂ emissions rate (lbs SO₂/MMBtu of actual heat input) from the coal received.
2. The permittee shall submit deviation (excursion) reports which identify all periods of time during start-up and shutdown of the emissions unit when the ESP was not in operation and the temperature of the boiler exhaust gases exceeded the temperature levels specified in OAC rule 3745-17-07(A)(3)(a)(i) and (b)(i).
 3. The permittee shall submit deviation (excursion) reports which identify:
 - a. any record of a primary or secondary voltage or current values which exceeds the range of values recorded for each transformer set during the most recent emission test which showed that the emissions unit was in compliance with the particulate (PM) emission limit; and
 - b. any record of a spark rate which exceeds the highest value recorded in each section within the ESP during the most recent emission test which showed that the emissions unit was in compliance with the particulate (PM) emission limit.

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V. **Testing Requirements**

1. Visible Emission Limit:

Compliance with OAC 3745-17-07(A) shall be demonstrated by the methods outlined in OAC 3745-17-03 (B)(3).
2. Particulate Emission Limit:

The permittee shall conduct, or have conducted, emission testing for this emissions unit in accordance with the following requirements:

 - a. The emission testing shall be conducted within 3 months after issuance of this permit and approximately 2.5 years after permit issuance.
 - b. The emission testing shall be conducted to demonstrate compliance with the allowable mass emission rate of 0.23 lb PM/MMBtu of actual heat input.
 - c. The following test method shall be employed to demonstrate compliance with the allowable mass emission rate:

Method 5 of 40 CFR Part 60, Appendix A.
 - d. During each test run, the primary and secondary voltage and current at each ESP transformer set and the spark rate in each ESP section shall be recorded at least every 5 minutes.

The recorded primary and secondary voltage and current values shall be used to establish an acceptable operating range or value for each ESP operating parameter.
 - e. The test shall be conducted while the emissions unit is operating at or near its maximum capacity, unless otherwise specified or approved by the appropriate Ohio EPA District Office or local air agency. Not later than 30 days prior to the proposed test date(s), the permittee shall submit an "Intent to Test" notification to the appropriate Ohio EPA District Office or local air agency. The "Intent to Test" notification shall describe in detail the proposed test methods and procedures, the emissions unit operating parameters, the time(s) and date(s) of the test, and the person(s) who will be conducting the test. Failure to submit such notification for review and approval prior to the test(s) may result in the Ohio EPA District Office's or local air agency's refusal to accept the results of the emission test.

Personnel from the appropriate Ohio EPA District Office or local air agency shall be permitted to witness the test, examine the testing equipment, and acquire data and information necessary to ensure that the operation of the emissions unit and the testing procedures provide a valid characterization of the emissions from the emissions unit and/or the performance of the control equipment.

A comprehensive written report on the results of the emissions test shall be signed by the person or persons responsible for the tests and submitted to the Ohio EPA District Office or local air agency within 30 days following completion of the test(s).
3. Sulfur Dioxide Limit:
 - a. Compliance with the SO₂ emission limit shall be demonstrated by the recordkeeping requirements in section A.III. 1., 2., and 3. of this permit.
 - b. If testing is required to demonstrate compliance with the allowable emission limit of 1.6 lbs SO₂/MMBtu of actual heat input, testing shall be conducted using the following method:

Method 6 of 40 CFR Part 60, Appendix A.

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VI. **Miscellaneous Requirements**

1. The following terms and conditions shall supersede all the air pollution control requirements contained in permit to install number 18-061 issued for this emissions unit on July 19, 1979:

Part III, Sections: A.I.-V. and B.I.-V.

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Facility ID: 1413000187 Emissions Unit ID: B002 Issuance type: Title V Draft Permit

B. State Enforceable Section

The following emissions unit terms and conditions are federally enforceable with the exception of those listed below which are enforceable under state law only.

1. None.

I. Applicable Emissions Limitations and/or Control Requirements

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
61 MMBTU/HR Coal and Waste Oil Fired Boiler #2 with Multiclones and an ESP.	See A.VI. OAC 3745-31-05	See T&C B.I.2.2.a.

2. Additional Terms and Conditions

- a. Annual emissions shall not exceed the following limitations:

1. PM 87 TPY
SO2 1016 TPY
NOx 444.6 TPY

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II. Operational Restrictions

1. The permittee may burn waste oil mixed with coal in this emissions unit at a maximum rate not to exceed 10 gallons of waste oil per ton of coal burned. The combined oil usage for emissions units B001, B002, and B003 shall not exceed 150,000 gallons per year. All waste oil must be generated at this facility.
2. Prior to combusting waste oil in this emissions unit, the permittee shall perform the reporting requirements in section B.IV.2. of this permit.
3. All waste oil burned in this emissions unit shall meet the following specifications:

Contaminant/Property Allowable Concentration

Arsenic 5 ppm, maximum
Cadmium 2 ppm, maximum
Chromium 10 ppm, maximum
Lead 100 ppm, maximum
PCB's 50 ppm, maximum
Total Halogens 4000 ppm, maximum
Mercury 1 ppm, maximum
Flash Point 100 degrees F, minimum
Heat Content 135,000 Btu/gallon, minimum

Waste oil containing more than 1000 ppm total halogens is presumed to be a hazardous waste under the rebuttable presumption provided under paragraph C of OAC rule 3745-58-50. Therefore, the permittee may burn waste oil exceeding 1000 ppm of total halogens (but less than 4000 ppm maximum) only if the permittee has demonstrated to the Ohio EPA's Division of Solid and Hazardous Waste Management that the waste oil does not contain any hazardous wastes.

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III. Monitoring and/or Record Keeping Requirements

1. Waste Oil Sampling and Analysis

The permittee shall collect a representative grab sample of waste oil for burning in this emissions unit. The permittee shall perform the analyses for sulfur content and heat content in accordance with the following ASTM methods: ASTM method D4294, ASTM method D240, or ASTM method 6010 for sulfur content; and ASTM method D240 for heat content. Alternative, equivalent methods may be used upon written approval by the appropriate Ohio EPA District Office or local air agency.

The analysis shall identify the following information:

- a. quantity of waste oil burned,
- b. the Btu value of the waste oil,
- c. the flash point of the waste oil,
- d. the arsenic content,
- e. the cadmium content,
- f. the chromium content,
- g. the lead content,
- h. the PCB content,
- i. the total halogen content, and
- j. the mercury content.

Each analysis shall be kept in a readily accessible location for at least 5 years and shall be made available to the Director (the appropriate Ohio EPA District Office or local air agency) upon verbal or written request. The Director or any authorized representative of the Director may require or may conduct periodic, detailed chemical analyses through an independent laboratory of any waste oil shipment received by this facility, of any waste oil stored at this facility, or of any waste oil sampled.

2. The permittee shall maintain monthly records of the total quantity of waste oil burned in emissions units B001, B002, and B003, in gallons and in gallons per ton of coal burned. These records should include the amount of oil burned that month, as well as, the total amount of oil burned to date for the calendar year.
3. The permittee shall maintain annual records of the tons of sulfur dioxide, particulates, and nitrogen oxides emitted from this emissions unit.

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IV. Reporting Requirements

1. The permittee shall submit an annual report which summarizes the following information for the waste oil burned: gallons per ton of coal for each month and gallons per year. The report shall also summarize the annual emissions of PM, SO₂, and NO_x in tons per year. This report shall be submitted by February 15th of each calendar year.
2. The permittee shall notify the USEPA and the Ohio EPA if any of the waste oil exceeds the waste oil specifications. An identification number from USEPA shall be obtained prior to the combustion of any waste oil.

Before the permittee burns any off-specification waste oil, the permittee must provide a one-time, written and signed notice certifying that:

- a. the company has notified USEPA of its waste oil management activities and that the notice included the location and description of those activities; and
- b. the company will burn the waste oil only in an industrial furnace or boiler identified in 40 CFR Part 266.41 (b) and OAC rule 3745-58-42.

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V. Testing Requirements

1. Compliance with the TPY NO_x limitation shall be established using the following calculations:

Multiply the total annual heat input (in mmBtu's) by the emission factor of 0.70 pound per MMBtu (established through a stack test). Divide that product by 2000 pounds to obtain TPY.
2. Compliance with the TPY SO₂ limitation shall be determined using equations outlined in OAC 3745-18-04(F) (1) and (2) to establish emission factors for solid and liquid fuels. The actual TPY shall be the combined total of emissions determined by multiplying the emission factors obtained above by the heat content and the usage rate of both fuels in tons of coal and gallons of waste oil burned per year and 0.0005 (converts to TPY).
3. Compliance with the TPY particulate limitation shall be established using the following calculations:

Multiply the actual pounds of PM per mmBtu of actual heat input as determined by the most recent stack test by the total heat input (in million Btu's) from the annual coal usage. Divide that total by 2000 pounds to obtain TPY.
4. Compliance with the waste oil specifications shall be demonstrated by the recordkeeping requirements in section B.III.1. of these terms and conditions.

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VI. **Miscellaneous Requirements**

None

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Facility ID: 1413000187 Emissions Unit ID: B003 Issuance type: Title V Draft Permit

A. State and Federally Enforceable Section

The following emissions unit terms and conditions are federally enforceable with the exception of those listed below which are enforceable under state law only.

1. None.

I. Applicable Emissions Limitations and/or Control Requirements

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
145 MMBTU/HR Coal and Waste Oil Fired Boiler #3 with Multiclones and an ESP.	See A.VI.	Visible emissions shall not exceed 20 percent opacity, as a six-minute average, except as specified by rule.
	OAC 3745-17-07(A)	
	See A.VI.	0.18 lb PM/MMBtu of actual heat input.
	OAC 3745-17-10(C)(1)	1.6 lbs SO2/MMBtu of actual heat input.
See A.VI.		
	OAC 3745-18-19(C)	

2. **Additional Terms and Conditions**
 - a.

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II. Operational Restrictions

1. The quality of the coal burned in this emissions unit shall meet the following specifications on an as-received basis:
 - a. A combination of ash content and heat content sufficient to comply with the PM emission limitation of 0.18 LB PM/MMBtu of actual heat input.
 - b. A combination of sulfur content and heat content which is sufficient to comply with the allowable sulfur dioxide emission limitation of 1.6 LBS SO2/MMBtu of actual heat input.

Compliance with the above-mentioned specifications shall be determined by using a weighted, arithmetic average of the analytical results provided by the permittee or coal supplier for all shipments of coal during each calendar month.
2. The quality of the waste oil burned in this emissions unit shall meet a sulfur content that is sufficient to comply with the allowable SO2 emission limit specified in section A.I. above.
3. The permittee shall operate the ESP during any operation of this emissions unit, except during periods of start-up and shutdown that are exempted pursuant to OAC rules 3745-17-07(A)(3)(a)(i) and 3745-17-07(A)(3)(b)(i), or during malfunctions that are exempted pursuant to OAC rule 3745-17-07(A)(3)(c).
4. The primary and secondary voltage (V) and current (amps) recorded at each transformer set within the ESP shall fall within the range of values recorded during the most recent emission test which showed that the emissions unit was in compliance with the particulate (PM) emission limit.
5. The spark rate (sparks/minute) recorded in each section within the ESP shall not exceed the highest value recorded during the most recent emission test which showed that the emissions unit was in compliance with the particulate (PM) emission limit.

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III. **Monitoring and/or Record Keeping Requirements**

1. Coal Sampling and Analysis:

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.

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 Isothermal Bomb Calorimeters, respectively. Alternative, equivalent methods may be used upon written approval from the appropriate Ohio EPA District Office or local air agency.

2. Coal Usage and SO₂ Emission Rate:

The permittee shall maintain monthly records of the following:

- a. the total quantity of coal received,
- b. the results of the analyses for ash content,
- c. the results of the analyses for sulfur content,
- d. the results of the analyses for heat content, and
- e. the average SO₂ emission rate (in LBS/MMBtu) calculated pursuant to equation in OAC rule 3745-18-04 (G)(1).

3. Waste Oil Sampling and Analysis:

The permittee shall collect a representative grab sample of oil that is burned in this emissions unit. The permittee shall perform the analyses for sulfur content and heat content in accordance with the following ASTM methods: ASTM method D4294, ASTM method D240, or ASTM method 6010 for sulfur content; and ASTM method D240 for heat content. Alternative, equivalent methods may be used upon written approval by the appropriate Ohio EPA District Office or local air agency.

4. Waste Oil Usage and SO₂ Emission Rate

For waste oil burned in this emissions unit, the permittee shall maintain records of the total quantity of oil burned, the permittee's analyses for sulfur content and heat content, and the calculated sulfur dioxide emission rate (in lbs/MMBtu). (The sulfur dioxide emission rate shall be calculated in accordance with the formula specified in OAC rule 3745-18-04(F).)

5. The permittee shall operate and maintain a temperature monitor and recorder that measures and records the temperature of the boiler exhaust gases entering the ESP during:

- a. all periods of start-up until the ESP is operational or until the inlet temperature of the ESP achieves the temperature level specified in OAC rule 3745-17-07(A)(3)(a)(i); and
- b. all periods of shutdown until the inlet temperature of the ESP drops below the temperature level specified in OAC rule 3745-17-07(A)(3)(b)(i).

The temperature monitor and recorder shall be installed, calibrated, operated, and maintained in accordance with manufacturer's recommendations, with any modifications deemed necessary by the permittee, and shall be capable of accurately measuring the temperature of the boiler exhaust gases in units of degrees Fahrenheit.

6. The permittee shall continuously monitor and record the following information on an hourly basis during any operation of the ESP:

- a. the primary and secondary voltage, in volts (V), and current, in milliamps, for each transformer set in the ESP; and
- b. the spark rate, in sparks/minute, in each section of the ESP.

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IV. **Reporting Requirements**

1. Quarterly reports shall be submitted concerning the quantity and quality 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;

- 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 SO₂ emissions rate (lbs SO₂/MMBtu of actual heat input) from the coal received.
2. The permittee shall submit deviation (excursion) reports which identify all periods of time during start-up and shutdown of the emissions unit when the ESP was not in operation and the temperature of the boiler exhaust gases exceeded the temperature levels specified in OAC rule 3745-17-07(A)(3)(a)(i) and (b)(i).
3. The permittee shall submit deviation (excursion) reports which identify:
- a. any record of a primary or secondary voltage or current values which exceeds the range of values recorded for each transformer set during the most recent emission test which showed that the emissions unit was in compliance with the particulate (PM) emission limit; and
 - b. any record of a spark rate which exceeds the highest value recorded in each section within the ESP during the most recent emission test which showed that the emissions unit was in compliance with the particulate (PM) emission limit.

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V. **Testing Requirements**

1. Visible Emission Limit:
- Compliance with OAC 3745-17-07(A) shall be demonstrated by the methods outlined in OAC 3745-17-03 (B)(3).
2. Particulate Emission Limit:
- The permittee shall conduct, or have conducted, emission testing for this emissions unit in accordance with the following requirements:
- a. The emission testing shall be conducted within 3 months after issuance of this permit and approximately 2.5 years after permit issuance.
 - b. The emission testing shall be conducted to demonstrate compliance with the allowable mass emission rate of 0.18 lb PM/MMBtu of actual heat input.
 - c. The following test method shall be employed to demonstrate compliance with the allowable mass emission rate:
Method 5 of 40 CFR Part 60, Appendix A.
 - d. During each test run, the primary and secondary voltage and current at each ESP transformer set and the spark rate in each ESP section shall be recorded at least every 5 minutes.

The recorded primary and secondary voltage and current values shall be used to establish an acceptable operating range or value for each ESP operating parameter.
 - e. The test shall be conducted while the emissions unit is operating at or near its maximum capacity, unless otherwise specified or approved by the appropriate Ohio EPA District Office or local air agency. Not later than 30 days prior to the proposed test date(s), the permittee shall submit an "Intent to Test" notification to the appropriate Ohio EPA District Office or local air agency. The "Intent to Test" notification shall describe in detail the proposed test methods and procedures, the emissions unit operating parameters, the time(s) and date(s) of the test, and the person(s) who will be conducting the test. Failure to submit such notification for review and approval prior to the test(s) may result in the Ohio EPA District Office's or local air agency's refusal to accept the results of the emission test.

Personnel from the appropriate Ohio EPA District Office or local air agency shall be permitted to witness the test, examine the testing equipment, and acquire data and information necessary to ensure that the operation of the emissions unit and the testing procedures provide a valid characterization of the emissions from the emissions unit and/or the performance of the control equipment.

A comprehensive written report on the results of the emissions test shall be signed by the person or persons responsible for the tests and submitted to the Ohio EPA District Office or local air agency within 30 days following completion of the test(s).
3. Sulfur Dioxide Limit:
- a. Compliance with the SO₂ emission limit shall be demonstrated by the recordkeeping requirements in section A.III. 1., 2., and 3. of this permit.
 - b. If testing is required to demonstrate compliance with the allowable emission limit of 1.6 lbs SO₂/MMBtu of actual heat input, testing shall be conducted using the following method:

Method 6 of 40 CFR Part 60, Appendix A.

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VI. **Miscellaneous Requirements**

1. The following terms and conditions shall supersede all the air pollution control requirements contained in permit to install number 18-061 issued for this emissions unit on July 19, 1979:

Part III, Sections: A.I.-V. and B.I.-V.

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Facility ID: 1413000187 Emissions Unit ID: B003 Issuance type: Title V Draft Permit

B. State Enforceable Section

The following emissions unit terms and conditions are federally enforceable with the exception of those listed below which are enforceable under state law only.

1. None.

I. Applicable Emissions Limitations and/or Control Requirements

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
145 MMBTU/HR Coal and Waste Oil Fired Boiler #3 with Multiclones and an ESP.	See A.VI. OAC 3745-31-05	See T&C B.I.2.2.a.

2. Additional Terms and Conditions

- a. Annual emissions shall not exceed the following limitations:

1.
 - PM 87 TPY
 - SO2 1016 TPY
 - NOx 444.6 TPY

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II. Operational Restrictions

1. The permittee may burn waste oil mixed with coal in this emissions unit at a maximum rate not to exceed 10 gallons of waste oil per ton of coal burned. The combined oil usage for emissions units B001, B002, and B003 shall not exceed 150,000 gallons per year. All waste oil must be generated at this facility.
2. Prior to combusting waste oil in this emissions unit, the permittee shall perform the reporting requirements in section B.IV.2. of this permit.
3. All waste oil burned in this emissions unit shall meet the following specifications:

Contaminant/Property Allowable Concentration

- Arsenic 5 ppm, maximum
- Cadmium 2 ppm, maximum
- Chromium 10 ppm, maximum
- Lead 100 ppm, maximum
- PCB's 50 ppm, maximum
- Total Halogens 4000 ppm, maximum
- Mercury 1 ppm, maximum
- Flash Point 100 degrees F, minimum
- Heat Content 135,000 Btu/gallon, minimum

Waste oil containing more than 1000 ppm total halogens is presumed to be a hazardous waste under the rebuttable presumption provided under paragraph C of OAC rule 3745-58-50. Therefore, the permittee may burn waste oil exceeding 1000 ppm of total halogens (but less than 4000 ppm maximum) only if the permittee has demonstrated to the Ohio EPA's Division of Solid and Hazardous Waste Management that the waste oil does not contain any hazardous wastes.

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III. Monitoring and/or Record Keeping Requirements

1. Waste Oil Sampling and Analysis

The permittee shall collect a representative grab sample of waste oil for burning in this emissions unit. The permittee shall perform the analyses for sulfur content and heat content in accordance with the following ASTM methods: ASTM method D4294, ASTM method D240, or ASTM method 6010 for sulfur content; and ASTM method D240 for heat content. Alternative, equivalent methods may be used upon written approval by the appropriate Ohio EPA District Office or local air agency.

The analysis shall identify the following information:

- a. quantity of waste oil burned,
- b. the Btu value of the waste oil,
- c. the flash point of the waste oil,
- d. the arsenic content,
- e. the cadmium content,
- f. the chromium content,
- g. the lead content,
- h. the PCB content,
- i. the total halogen content, and
- j. the mercury content.

Each analysis shall be kept in a readily accessible location for at least 5 years and shall be made available to the Director (the appropriate Ohio EPA District Office or local air agency) upon verbal or written request. The Director or any authorized representative of the Director may require or may conduct periodic, detailed chemical analyses through an independent laboratory of any waste oil shipment received by this facility, of any waste oil stored at this facility, or of any waste oil sampled.

2. The permittee shall maintain monthly records of the total quantity of waste oil burned in emissions units B001, B002, and B003, in gallons and in gallons per ton of coal burned. These records should include the amount of oil burned that month, as well as, the total amount of oil burned to date for the calendar year.
3. The permittee shall maintain annual records of the tons of sulfur dioxide, particulates, and nitrogen oxides emitted from this emissions unit.

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IV. Reporting Requirements

1. The permittee shall submit an annual report which summarizes the following information for the waste oil burned: gallons per ton of coal for each month and gallons per year. The report shall also summarize the annual emissions of PM, SO₂, and NO_x in tons per year. This report shall be submitted by February 15th of each calendar year.
2. The permittee shall notify the USEPA and the Ohio EPA if any of the waste oil exceeds the waste oil specifications. An identification number from USEPA shall be obtained prior to the combustion of any waste oil.

Before the permittee burns any off-specification waste oil, the permittee must provide a one-time, written and signed notice certifying that:

- a. the company has notified USEPA of its waste oil management activities and that the notice included the location and description of those activities; and
- b. the company will burn the waste oil only in an industrial furnace or boiler identified in 40 CFR Part 266.41 (b) and OAC rule 3745-58-42.

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V. Testing Requirements

1. Compliance with the TPY NO_x limitation shall be established using the following calculations:

Multiply the total annual heat input (in mmBtu's) by the emission factor of 0.70 pound per MMBtu (established through a stack test). Divide that product by 2000 pounds to obtain TPY.
2. Compliance with the TPY SO₂ limitation shall be determined using equations outlined in OAC 3745-18-04(F) (1) and (2) to establish emission factors for solid and liquid fuels. The actual TPY shall be the combined total of emissions determined by multiplying the emission factors obtained above by the heat content and the usage rate of both fuels in tons of coal and gallons of waste oil burned per year and 0.0005 (converts to TPY).
3. Compliance with the TPY particulate limitation shall be established using the following calculations:

Multiply the actual pounds of PM per mmBtu of actual heat input as determined by the most recent stack test by the total heat input (in million Btu's) from the annual coal usage. Divide that total by 2000 pounds to obtain TPY.
4. Compliance with the waste oil specifications shall be demonstrated by the recordkeeping requirements in section B.III.1. of these terms and conditions.

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VI. **Miscellaneous Requirements**

None