

Facility ID: 1667040085 Issuance type: Title V Preliminary Proposed Permit

This version of facility specific terms and conditions was converted from a database format to an HTML file during an upgrade of the Ohio EPA, Division of Air Pollution Control's permitting software. Every attempt has been made to convert the terms and conditions to look and substantively conform to the permit issued or being drafted in STARS. However, the format of the terms may vary slightly from the original. In addition, although it is not expected, there is a slight possibility that a term and condition may have been inadvertently "left out" of this reproduction during the conversion process. Therefore, if this version is to be used as a starting point in drafting a new version of a permit, it is imperative that the entire set of terms and conditions be reviewed to ensure they substantively mimic the issued permit. The official version of any permit issued final by Ohio EPA is kept in the Agency's Legal section. The Legal section may be contacted at (614) 644-3037.

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

1. The permittee is hereby notified that this permit, and all agency records concerning the operation of these permitted emissions units are subject to public disclosure in accordance with OAC rule 3745-49-03.
2. The following insignificant emissions units are located at this facility:

K001 CE & O Paint Shop Spray Booth (PTI 16-02340);
 N003 Cunningham Incinerator;
 T001 Fuel Oil Storage Tank No. 1 (PTI 16-01757);
 T002 Fuel Oil Storage Tank No. 2 (PTI 16-01757);
 T003 Fuel Oil Storage Tank No. 3 (PTI 16-01757);
 T004 Fuel Oil Storage Tank No. 4 (PTI 16-01757);
 T005 Fuel Oil Storage Tank No. 5; (PTI 16-01757); and
 T006 Fuel Oil Storage Tank No. 6; (PTI 16-01757).

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 the identified permit to install for the emissions unit. Insignificant emissions units listed above that are not subject to specific permit to install requirements are subject to one or more applicable requirements contained in the federally-approved versions of OAC Chapters 3745-17, 3745-18, and 3745-21.

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b State Only Enforceable Section

1. The following insignificant emissions units located at this facility are exempt from permit requirements because they are not subject to any applicable requirements (as defined in OAC rule 3745-77-01(H)) or because they meet the "de minimis" criteria established in OAC rule 3745-15-05:

Z001 Art Building Spray Booth;
 Z002 Ceramics Lab Spray Booth;
 Z003 Ceramics Lab Raku Kiln;
 Z004 Ceramics Lab Salt Kiln;
 Z005 Ceramics Lab Denver Kiln;
 Z006 M Schwartz Cntr Spray Booth;
 Z007 M Schwartz Cntr Glass Furnace F1;
 Z008 M Schwartz Cntr Glass Furnace F2;
 Z010 M Schwartz Cntr Reheat Chamnber G1;
 Z011 M Schwartz Cntr Reheat Chamnber G2;
 Z012 Taylor Hall Spray Booth;
 Z013 Residence Hall Painting Operations;
 Z014 CE&O Structure Painting Operations;
 Z015 Ceramics Lab Silverado Kiln;
 Z016 Ceramics Lab Six-Rad Kiln;
 Z017 Ceramics Lab Slim Kiln;
 Z018 Traffic Paint;
 Z020 Franklin Hall Fume Hood;
 Z021 White Hall Fume Hood;
 Z022 Art Building Fume Hood;
 Z023 Cunningham Hall Fume Hoods;
 Z024 Kent Hall Fume Hood;
 Z025 LCM Fume Hoods;
 Z026 Lowry Hall Fume Hoods;
 Z027 MACC Annex Fume Hood;
 Z028 McGilvrey Hall Fume Hoods;
 Z029 Williams Hall Research Lab Fume Hoods;

Z030 Michael Schwartz Center Fume Hood;
Z031 Music & Speech Radio Emergency Generator;
Z032 Science Research Lab Fume Hoods;
Z033 Smith Hall Fume Hoods;
Z034 Allerton Ph 1 Boilers;
Z035 Williams Hall Academic Fume Hoods;
Z036 Ice Arena Emergency Generator;
Z037 DeWeese Health Center Emergency Generator;
Z038 Beal Hall Emergency Generator;
Z039 Korb Hall Emergency Generator;
Z040 Business Administration Bldg Emergency Generator;
Z041 Music & Speech Emergency Generator;
Z042 Tri-Towers Emergency Generator;
Z043 Art Bldg Emergency Generator;
Z044 Williams Hall Emergency Generator;
Z045 Math Bldg Emergency Generator;
Z046 Cunningham Hall Emergency Generator;
Z047 Memorial Gym Emergency Generator;
Z048 Merrill Hall Emergency Generator;
Z049 Smith Bldg Emergency Generator;
Z050 Student Center Emergency Generator;
Z051 Science Research lab Emergency Generator;
Z052 WKSU Radio Station Emergency Generator;
Z053 Stockdale Emergency Generator;
Z054 Portable Emergency Generator 350KW;
Z055 Portable Emergency Generator 225KW;
Z056 Portable Emergency Generator 70KW;
Z057 Vandeusen Hall Fume Hoods;
Z058 Ice Arena Boiler;
Z059 MACC Annex Emergency Generator;
Z060 Rockwell Hall Emergency Generator;
Z061 WKSU Tower Emergency Generator;
Z063 LCM Science Building Emergency Generator;
Z064 Moulton Hall Emergency Generator;
Z065 LCM Science Building Clean Room;
Z066 Allerton Ph 2 Boilers;
Z067 Small Group Boilers;
Z068 Student Recreation and Wellness Center Boiler;
Z069 Student Recreation and Wellness Center Boiler;
Z070 Library Emergency Generator;
Z071 Power Plant Emergency Generator;
Z072 Cunningham Annex Emergency Generator;
Z073 CE&O Diesel Tank;
Z074 CE&O Gasoline Tank;
Z075 CE&O Mixed Fuel Tank;
Z076 70kw Port. Genset Tank;
Z077 225kw Port. Genset Tank;
Z078 350kw Port. Genset Tank;
Z079 MACC Annex Genset Tank;
Z080 Beal Genset Tank;
Z081 Cunningham Annex Genset Tank;
Z082 LCM Genset Tank;
Z083 MACC Genset Tank;
Z084 Math Genset Tank;
Z085 Moulton Genset Tank;
Z086 Power Plant Genset Day-Tank;
Z087 Powerhouse Genset Tank;
Z088 Rockwell Genset Tank;
Z089 Science Research Genset Tank;
Z090 Tri-Towers Genset Tank;
Z091 Williams Genset Tank;
Z092 WKSU Genset Tank;
Z093 WKSU Tower Genset Tank;
Z094 Ceramics Lab Boiler;
Z095 Child Development Center Boilers;
Z096 DeWeese Boiler;
Z097 DeWeese Boiler;
Z098 Allerton Ph 1 Water Heaters;
Z099 Small Group Water Heaters;
Z100 DeWeese Water Heaters;
Z101 Ice Arena Water Heaters;
Z102 Allerton Ph 2 Water Heaters;
Z103 Cunningham Annex Water Heaters;
Z104 Wellness CNTR Water Heaters;
Z105 WKSU Water Heater; and
Z106 Lake Olsen Emergency Generator.

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Part III - Terms and Conditions for Emissions Units

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Facility ID: 1667040085 Emissions Unit ID: B006 Issuance type: Title V Preliminary Proposed 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>
121 million Btu/hr rated heat input natural gas/fuel oil-fired boiler	OAC rule 3745-31-05(A)(3) (PTI 16-02332)	Visible particulate emissions (PE) shall not exceed 20% opacity, as a six-minute average. 0.020 lb PE/mmBtu heat input 0.55 lb sulfur dioxide (SO ₂)/mmBtu heat input when burning gas: 0.16 lb nitrogen oxides (NO _x)/mmBtu heat input 0.16 lb carbon monoxide (CO)/mmBtu heat input when burning oil: 0.20 lb NO _x /mmBtu heat input 0.18 lb CO/mmBtu heat input The requirements of this rule also include compliance with the requirements of OAC rule 3745-31-05(C), and Part III, Section A.II below. The emission control requirements specified by these rules are less stringent than the emission control requirements established pursuant to OAC rule 3745-31-05(A)(3). See A.I.2.b below. See A.I.2.c below. The following annual emission limits, for B006 through B010 combined, are based upon a rolling, 12-month summation of the monthly emissions, and are restricted by the federally enforceable production limitations of Part III, Section A.II: 87.0 tons/year of CO; 99.0 tons/year of NO _x ; 9.5 tons/year of PE; and 99.0 tons/year of SO ₂ .
	40 CFR 60.42b 40 CFR 60.43b 40 CFR 60.44b OAC rule 3745-17-07(A) OAC rule 3745-17-10(B) OAC rule 3745-18-06(D) OAC rule 3745-21-08(B) OAC rule 3745-21-07(B) OAC 3745-23-06(B) 40 CFR Part 75 OAC rule 3745-103 OAC rule 3745-31-05(C)	

2. Additional Terms and Conditions

- a. The mass emission limitations for PE, SO₂, NO_x, and CO established pursuant to OAC rule 3745-31-05(A)(3) are equal to or greater than the potential to emit for this emissions unit. Therefore, no additional monitoring, record keeping, or reporting requirements are necessary to demonstrate compliance with these emission limitations.

- (a) However, if any proposed change(s), such as with fuel grade, quality, and/or heat content, heat input capacity, equipment changeover, etc., or any other change(s), increase(s) the potential to emit, then the permittee shall apply for and obtain either a modification to the permit to install or a new final permit to install prior to the change(s).
- b. The permittee satisfies the "best available control techniques and operating practices" and "latest available control techniques and operating practices" required pursuant to OAC rule 3745-21-08 and 3745-21-07(B), respectively, by complying with the best available technology requirements of OAC rule 3745-31-05(A)(3).
- On November 5, 2002, OAC rule 3745-21-08 was revised to delete paragraph (B); therefore, paragraph (B) is no longer part of the State regulations. However, that rule revision has not yet been submitted to the U.S. EPA as a revision to Ohio's State Implementation Plan (SIP). Therefore, until the SIP revision occurs and the U.S. EPA approves the revisions to OAC rule 3745-21-08, the requirement to satisfy the "best available control techniques and operating practices" still exists as part of the federally-approved SIP for Ohio.
- c. If the permittee is subject to the requirements of 40 CFR Part 72 and 75 concerning acid rain, the permittee shall ensure that any effected emissions unit complies with those requirements. Emissions exceeding any allowances that are lawfully held under Title IV of the Act, or any regulations adopted thereunder, are prohibited.

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II. Operational Restrictions

1. The permittee shall burn only natural gas and/or No. 2 fuel oil as fuel in this emissions unit. The No. 2 fuel oil shall contain no more than 0.48%, by weight, of sulfur and shall meet the distillate oil and very low sulfur oil definitions of 40 CFR 60.41b.

(Authority for term: OAC rule 3745-31-05(A)(3) and OAC rule 3745-77-07(A)(1))
2. If burned exclusively, with no usage of gas, the maximum annual oil usage for emissions units B006 through B008, combined, shall not exceed 2.627 million gallons based upon a rolling, 12-month summation of the monthly oil usage rates.

(Authority for term: OAC rule 3745-31-05(A)(3), OAC rule 3745-31-05(C), and OAC rule 3745-77-07(A)(1))
3. If burned exclusively, with no usage of gas, the maximum annual oil usage for emissions unit B008 shall not exceed 0.740 million gallons based upon a rolling, 12-month summation of the monthly oil usage rates.

(Authority for term: OAC rule 3745-31-05(A)(3), OAC rule 3745-31-05(C), and OAC rule 3745-77-07(A)(1))
4. If burned exclusively, with no usage of oil, the maximum annual gas usage for emissions units B006 through B010, combined, shall not exceed 1414 million cubic feet based upon a rolling, 12-month summation of the monthly gas usage rates.

(Authority for term: OAC rule 3745-31-05(A)(3), OAC rule 3745-31-05(C), and OAC rule 3745-77-07(A)(1))
5. If oil is substituted for gas in emissions units B006 and/or B007, then the annual limit of 1414 million cubic feet of natural gas shall be reduced by 71.5 cubic feet for each gallon of oil burned.

(Authority for term: OAC rule 3745-31-05(A)(3), OAC rule 3745-31-05(C), and OAC rule 3745-77-07(A)(1))
6. If oil is substituted for gas in emissions unit B008, then the annual limit of 1414 million cubic feet of natural gas shall be reduced by 540 cubic feet for each gallon of oil burned.

(Authority for term: OAC rule 3745-31-05(A)(3), OAC rule 3745-31-05(C), and OAC rule 3745-77-07(A)(1))
7. Consequent to the results from initial performance testing conducted on June 12-13, 2001, and pursuant to OAC rule 3745-17-10(B)(3), the heat input for this emissions unit, when burning oil, is derated from 121 mmBtu/hr to 72.6 mmBtu/hr. Correspondingly, when burning oil, at no time shall the steam flow rate from this emissions unit exceed 60,000 lbs/hr (as an average over any one-hour period).

The steam flow rate output restriction of this emissions unit may be removed upon written approval from the Director (the appropriate Ohio EPA District Office or local air agency) and without need of formal permit modification or issuance of a new permit, provided the permittee retests this emissions unit and demonstrates compliance when burning oil at or near the maximum rated heat input of 121 mmBtu/hr and steam flow rate output of 100,000 lbs/hr, following the requirements of V.3 "Test Requirements" below.

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III. Monitoring and/or Record Keeping Requirements

1. The permittee shall maintain fuel receipts from the fuel supplier listing the ASTM D396-78 specifications (including fuel oil number and weight percent sulfur content), and certifying that the oil meets the definitions of distillate oil and very low sulfur oil of 40 CFR 60.41b.

(Authority for term: OAC rule 3745-31-05(A)(3) and OAC rule 3745-77-07(C)(1))
2. The permittee shall maintain monthly records of the following information for emissions units B006 through

B010, combined:

- a. the monthly amount of oil burned (gallons);
 - b. the rolling, 12-month amount of oil burned (gallons);
 - c. the monthly amount of gas burned (cubic feet);
 - d. the rolling, 12-month amount of gas burned (cubic feet);
 - e. the monthly emissions (tons) for each of CO, NOx, PE, and SO₂; and
 - f. the rolling, 12-month emission rates (tons) for each CO, NOx, PE, and SO₂.

(Authority for term: OAC rule 3745-31-05(A)(3), OAC rule 3745-31-05(C), and OAC rule 3745-77-07(C)(1))
3. In accordance with 40 CFR Part 60.48b, for the combustion of oil, the permittee shall install, calibrate, maintain, and operate a continuous opacity monitoring system (COMS) for measuring the opacity of PE from this emissions unit discharged to the atmosphere, and record the output of the system in units of the applicable standard. Such continuous monitoring and recording equipment shall comply with the requirements specified in 40 CFR Part 60.13.
- Prior to the installation of the COMS, 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.
- (Authority for term: OAC rule 3745-31-05(A)(3) and OAC rule 3745-77-07(C)(1))
4. In accordance with 40 CFR Part 60.48b, the permittee shall install, calibrate, maintain, and operate a continuous emission monitoring (CEM) system for measuring NOx emissions discharged to the atmosphere and record the output of the system in units of the applicable standard. Such continuous monitoring and recording equipment shall comply with the requirements specified in 40 CFR Part 60.13.
- Prior to the installation of the NOx CEM, 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 2 for approval by the Ohio EPA, Central Office.
- (Authority for term: OAC rule 3745-31-05(A)(3) and OAC rule 3745-77-07(C)(1))
5. Span values for NOx shall be determined in accordance with 40 CFR 60.48b(e).
 6. When NOx emission data are not obtained because of CEM system breakdowns, repairs, calibration checks, and zero and span adjustments, emission data will be obtained by using standby monitoring systems, Method 7, Method 7A, or other approved reference methods to provide emission data for a minimum of 75 percent of the operating hours in each steam generating unit operating day, in at least 22 out of 30 successive steam generating unit operating days.

(Authority for term: OAC rule 3745-31-05(A)(3) and OAC rule 3745-77-07(C)(1))
 7. In accordance with 40 CFR 60.49b(g), the permittee shall maintain records of the following information for each steam generating unit operating day:
 - a. calendar date;
 - b. the average hourly NOx emission rates (lb/million Btu heat input) measured or predicted;
 - c. the 30-day average NOx emission rates (lb/million Btu heat input) calculated at the end of each steam generating unit operating day from the measured or predicted hourly NOx emission rates or the preceding 30 steam generating unit operating days;
 - d. identification of the steam generating unit operating days when the calculated 30-day average NOx emission rates are in excess of the NOx emissions standards, with the reasons for such excess emissions as well as a description of corrective actions taken;
 - e. identification of the steam generating unit operating days for which pollutant data have not been obtained, including reasons for not obtaining sufficient data and a description of corrective actions taken;
 - f. identification of times when emission data have been excluded from the calculation of average emission rates and the reasons for excluding data;
 - g. identification of "F" factor used for calculations, method of determination, and type of fuel combusted;
 - h. identification of the times when the pollutant concentration exceeded full span of the CEM system;
 - i. description of any modifications to the CEM system that could affect the ability of the system to comply with Performance Specification 2 or 3; and
 - j. results of daily CEM systems drift tests.

(Authority for term: OAC rule 3745-31-05(A)(3) and OAC rule 3745-77-07(C)(1))
 8. The permittee shall maintain daily records of the following information for this emissions unit:
 - a. The total summation of steam flow from this emissions unit, in pounds/day;

- b. The total hours of steam flow from this emissions unit, in hours/day; and
- c. The average hourly steam flow rate from this emissions unit, in pounds/hour, i.e., $c = a/b$.

Copies of all steam flow records for this emissions unit shall be maintained for a period of not less than 5 years, and shall be made available to the Director (appropriate Ohio EPA District Office or local air agency) upon verbal or written request.

(Authority for term: OAC rule 3745-31-05(A)(3) and OAC rule 3745-77-07(C)(1))

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IV. Reporting Requirements

1. The permittee shall submit quarterly reports certifying no fuel, except as specified above in Part III, A.II Operational Restrictions, was burned in this emissions unit during the preceding calendar quarter.
(Authority for term: OAC rule 3745-31-05(A)(3) and OAC rule 3745-77-07(C)(1))
2. The permittee shall submit quarterly deviation (excursion) reports that identify all exceedances of the rolling, 12-month fuel usage rates, each for oil and gas, as specified in Part III, A.II Operational Restrictions, as well as the corrective actions that were taken to achieve compliance.
(Authority for term: OAC rule 3745-31-05(A)(3) and OAC rule 3745-77-07(C)(1))
3. The permittee shall submit quarterly deviation (excursion) reports that identify all exceedances of the rolling, 12-month emission rates, for CO, NO_x, PE, and SO₂, for emissions units B006 through B010, combined, as well as the corrective actions that were taken to achieve compliance.
(Authority for term: OAC rule 3745-31-05(A)(3) and OAC rule 3745-77-07(C)(1))
4. The permittee shall submit notification of the date of initial startup, as provided by 40 CFR60.7. The notification shall include the design heat input capacity of the steam generating unit(s) and identification of the fuels to be combusted in the subject units.
(Authority for term: OAC rule 3745-31-05(A)(3) and OAC rule 3745-77-07(C)(1))
5. The permittee shall submit to the Administrator the performance test data from the initial emissions test and the performance evaluation of the continuous monitoring systems using the applicable performance specifications in 40 CFR Part 60, Appendix B.
(Authority for term: OAC rule 3745-31-05(A)(3) and OAC rule 3745-77-07(C)(1))
6. The permittee shall submit a quarterly report containing the information recorded under 40 CFR 60.49b(g).
(Authority for term: OAC rule 3745-31-05(A)(3) and OAC rule 3745-77-07(C)(1))
7. If for any reason the steam flow rate from this emissions unit exceeded 60,000 lbs/hr, when burning oil, the following information shall be reported within 5 business days after the exceedance:
 - a. the date of the exceedance;
 - b. the time interval over which the exceedance occurred;
 - c. the value of the exceedance;
 - d. the cause(s) of the exceedance;
 - e. the corrective action which has been or will be taken to prevent similar exceedances in the future; and
 - f. a copy of the steam chart which shows the exceedance.
(Authority for term: OAC rule 3745-31-05(A)(3) and OAC rule 3745-77-07(C)(1))
8. Unless specified otherwise, all above quarterly deviation reports shall be submitted in accordance with the deadlines and other requirements specified in Part I - General Term and Condition 2 of this permit.
(Authority for term: OAC rule 3745-31-05(A)(3) and OAC rule 3745-77-07(C)(1))

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V. Testing Requirements

1. Compliance with the emission limitations of OAC rule 3745-31-05(A)(3) in Part III, Section A.1.1 of these terms and conditions shall be demonstrated in accordance with the following methods, using applicable emission factors from US EPA reference document AP-42, Fifth Edition, Tables 1.3-1, 1.4-1, and 1.4-2, and heat contents of 137,000 Btu/gallon of oil & 1000 Btu/cubic foot of gas:
 - a. Emission Limitation: Visible PE shall not exceed 20% opacity, as a six-minute average.

Applicable Compliance Method: Compliance with the visible PE shall be demonstrated in accordance with Method 9 of 40 CFR Part 60, Appendix A.

(Authority for term: OAC rule 3745-77-07(C)(1) and OAC rule 3745-17-03(B)(1))

b. Emission Limitation: 0.020 lb PE/mmBtu heat input

Applicable Compliance Method: The potential to emit is less than the above emission limitation, as demonstrated in the equations below:

when burning gas:

$$E = GP/H$$

where,

E = 0.0019 lb PE/mmBtu heat input [potential to emit];
G = 0.121 mm cu ft/hr [design fuel usage];
P = 1.9 lbs PE/mm cu ft [emission factor]; and
H = 121 mmBtu/hr [design heat input capacity].

when burning oil:

$$E = OP/H$$

where,

E = 0.01 lb PE/mmBtu heat input [potential to emit];
O = 883 gals/hr [design fuel usage];
P = 2 lbs PE/1000 gals [emission factor]; and
H = 121 mmBtu/hr [design heat input capacity].

If required, the permittee shall demonstrate compliance based on the results of emission testing conducted in accordance with 40 CFR Part 60, Appendix A, Methods 1 - 5.

(Authority for term: OAC rule 3745-17-03(B)(9), OAC rule 3745-31-05(A)(3) and OAC rule 3745-77-07(C)(1))

c. Emission Limitation: 0.55 lb SO₂/mmBtu heat input

Applicable Compliance Method: The potential to emit is equal to the above emission limitation, as demonstrated in the equation below:

when burning gas:

Compliance with this limitation will be assumed due to the negligible % sulfur content of natural gas.

when burning oil:

$$E = OS/H$$

where,

E = 0.55 lb SO₂/mmBtu heat input [potential to emit];
O = 883 gals/hr [design fuel usage];
S = 75.36 lbs SO₂/1000 gals [emission factor]; and
H = 121 mmBtu/hr [design heat input capacity].

If required, the permittee shall demonstrate compliance based on the results of emission testing conducted in accordance with 40 CFR Part 60, Appendix A, Methods 1 - 4 and 6.

(Authority for term: OAC rule 3745-18-04(F)(2), OAC rule 3745-18-04(E), OAC rule 3745-31-05(A)(3) and OAC rule 3745-77-07(C)(1))

d. Emission Limitations: 0.16 lb NO_x/mmBtu heat input (when burning gas); and
0.20 lb NO_x/mmBtu heat input (when burning oil)

Applicable Compliance Method: The potential to emit is less than the above emission limitations, as demonstrated in the equations below:

when burning gas:

$$E = GN/H$$

where,

E = 0.14 lb NO_x/mmBtu heat input [potential to emit];
G = 0.121 mm cu ft/hr [design fuel usage];
N = 140 lbs NO_x/mm cu ft [emission factor]; and
H = 121 mmBtu/hr [design heat input capacity].

when burning oil:

$$E = ON/H$$

where,

E = 0.073 lb NO_x/mmBtu heat input [potential to emit];
 O = 883 gals/hr [design fuel usage];
 N = 10 lbs NO_x/1000 gals [emission factor]; and
 H = 121 mmBtu/hr [design heat input capacity].

If required, the permittee shall demonstrate compliance based on the results of emission testing conducted in accordance with 40 CFR Part 60, Appendix A, Methods 1 - 4 and 7E.

(Authority for term: OAC rule 3745-31-05(A)(3) and OAC rule 3745-77-07(C)(1))

- e. Emission Limitation: 0.16 lb CO/mmBtu heat input (when burning gas); and
 0.18 lb CO/mmBtu heat input (when burning oil)

Applicable Compliance Method: The potential to emit is less than the above emission limitations, as demonstrated in the equations below:

when burning gas:

$$E = GC/H$$

where,

E = 0.084 lb CO/mmBtu heat input [potential to emit];
 G = 0.121 mm cu ft/hr [design fuel usage];
 C = 84 lbs CO/mm cu ft [emission factor]; and
 H = 121 mmBtu/hr [design heat input capacity].

when burning oil:

$$E = OC/H$$

where,

E = 0.04 lb CO/mmBtu heat input [potential to emit];
 O = 883 gals/hr [design fuel usage];
 C = 5 lbs CO/1000 gals [emission factor]; and
 H = 121 mmBtu/hr [design heat input capacity].

If required, the permittee shall demonstrate compliance based on the results of emission testing conducted in accordance with 40 CFR Part 60, Appendix A, Methods 1 - 4 and 10.

(Authority for term: OAC rule 3745-31-05(A)(3) and OAC rule 3745-77-07(C)(1))

2. Compliance with the annual CO, NO_x, PE, and SO₂ emission limitations of OAC rule 3745-31-05 (C) in Part III, Section A.I.1 of these terms and conditions shall be demonstrated in accordance with the emissions determination, as required in the record keeping section of Part III, Section A.III.2 above, using the synthetic minor potential to emit strategy contained in the "Permit to Install Application Supporting Documentation" prepared 10/21/03 by David Marczyly, Environmental Design Group, 450 Grant Street, Akron, Ohio 44311, included in the application.

(Authority for term: OAC rule 3745-31-05(A)(3) and OAC rule 3745-77-07(C)(1))

3. The permittee shall conduct emission and continuous emission monitoring (CEM) equipment performance testing for this emissions unit in accordance with the following requirements:

- a. The testing shall be conducted in the period 18 to 6 months prior to the permit expiration.
- b. The emission testing shall be conducted to demonstrate compliance with the allowable mass emission rate (s) for NO_x, in the appropriate averaging period(s), and the CEM performance testing shall be conducted, as required under 40 CFR 60.46b, in accordance with 40 CFR 60.8, using the continuous system for monitoring nitrogen oxides under 40 CFR 60.48b.
- c. The following test method(s) shall be employed to demonstrate compliance with the allowable mass emission rate(s):

7E.

Alternative U.S. EPA approved test methods may be used with prior approval from the Ohio EPA.

d. The test(s) 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.

e. 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(s), and the person(s) who will be conducting the test(s). 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(s).

- f. Personnel from the appropriate Ohio EPA District Office or local air agency shall be permitted to witness the test(s), 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.

g. A comprehensive written report on the results of the emissions test(s) shall be signed by the person or

persons responsible for the tests and submitted to the appropriate Ohio EPA District Office or local air agency within 30 days following completion of the test(s). The permittee may request additional time for the submittal of the written report, where warranted, with prior approval from the appropriate Ohio EPA District Office or local air agency.

(Authority for term: OAC rule 3745-31-05(A)(3) and OAC rule 3745-77-07(C)(1))

4. The permittee shall conduct, or have conducted, performance testing of the COMS in accordance with the requirements of 40 CFR Part 60, Appendix B, Performance Specification 1 and ASTM D 6216-98, following the manufacturer's specified quality assurance procedures. Personnel from the appropriate Ohio EPA District Office or local air agency shall be notified prior to initiation of the applicable tests and shall be permitted to examine equipment and witness the certification tests. Copies of the test results shall be submitted to Ohio EPA Central Office and Akron Air Quality.

(Authority for term: OAC rule 3745-31-05(A)(3) and OAC rule 3745-77-07(C)(1))

5. The permittee demonstrated compliance with the NO_x and opacity emission standards of OAC rule 3745-31-05(A)(3) in Part III, Section A.1.1 at or near design capacity, while burning gas, and at 60% of design capacity, while burning oil, and successfully completed certification of the NO_x CEM system, in accordance with 40 CFR 60.8, 40 CFR 60.46b, and 40 CFR 60, Appendix B, Performance Specifications 2 & 3, during the emissions and performance testing conducted on June 12-13, 2001. A final test report was received at this office on July 23, 2001.

(Authority for term: OAC rule 3745-31-05(A)(3) and OAC rule 3745-77-07(C)(1))

6. The permittee shall have the option to remove the deration and corresponding steam flow rate output restriction of Part III, Section A.1.10 above by conducting emission testing of this emissions unit, when burning oil, in accordance with the following requirements:

- a. The emission testing shall be conducted to demonstrate compliance with the visible particulate emissions limitation (% opacity) and the NO_x mass emissions limitation (lbs NO_x/mmBtu heat input), when burning oil.

- b. The tests shall demonstrate compliance with the following allowable emission rates using the specified test methods:

20% opacity as a six-minute average, using Method 9 of 40 CFR Part 60, Appendix A; and

0.20 lb NO_x/mmBtu heat input, using Method 7E of 40 CFR Part 60, Appendix A.

Alternative U.S. EPA approved test methods may be used with prior approval from the Ohio EPA.

- c. The tests 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(s), and the person(s) who will be conducting the test(s). 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(s).

Personnel from the appropriate Ohio EPA District Office or local air agency shall be permitted to witness the test(s), 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(s) shall be signed by the person or persons responsible for the tests and submitted to the appropriate Ohio EPA District Office or local air agency within 30 days following completion of the test(s). The permittee may request additional time for the submittal of the written report, where warranted, with prior approval from the appropriate Ohio EPA District Office or local air agency.

(Authority for term: OAC rule 3745-31-05(A)(3) and OAC rule 3745-77-07(C)(1))

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VI. Miscellaneous Requirements

1. Modeling to demonstrate compliance with the Ohio EPA's "Air Toxic Policy" was not necessary because the emissions unit's maximum annual emissions for each toxic compound will be less than 1.0 ton. OAC Chapter 3745-31 requires permittees to apply for and obtain a new or modified permit to install prior to making a "modification" as defined by OAC rule 3745-31-01. The permittee is hereby advised that changes in the composition of the materials, or use of new materials, that would cause the emissions of any pollutant that has a listed TLV to increase above 1.0 ton per year may require the permittee to apply for and obtain a new permit to install.

(Authority for term: OAC rule 3745-31-05(A)(3) and OAC rule 3745-77-07(C)(1))

2. The application and enforcement of the provisions of the New Source Performance Standards (NSPS), as promulgated by the United States Environmental Protection Agency, 40 CFR Part 60, are delegated to the Ohio Environmental Protection Agency. The requirements of 40 CFR Part 60 are also federally enforceable.

(Authority for term: OAC rule 3745-31-05(A)(3) and OAC rule 3745-77-07(C)(1))

3. Within 180 days of the effective date of PTI 16-02332, if not already done so, the permittee shall develop a

written quality assurance/quality control plan for the COMS 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 and a description of preventive maintenance activities. The quality assurance/quality control plan and a logbook dedicated to the COMS must be kept on site and available for inspection during regular office hours.

(Authority for term: OAC rule 3745-31-05(A)(3) and OAC rule 3745-77-07(C)(1))

4. Within 180 days of the effective date of PTI 16-02332, if not already done so, the permittee shall develop a written quality assurance/quality control plan for the NOx CEMS designed to ensure continuous valid and representative readings of NOx emissions in units of the applicable standard. The plan shall include, as a minimum, conducting and recording daily automatic zero/span checks and a description of preventive maintenance activities. The quality assurance/quality control plan and a logbook dedicated to the NOx CEMS must be kept on site and available for inspection during regular office hours.

(Authority for term: OAC rule 3745-31-05(A)(3) and OAC rule 3745-77-07(C)(1))

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Facility ID: 1667040085 Emissions Unit ID: B006 Issuance type: Title V Preliminary Proposed 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>
121 million Btu/hr rated heat input natural gas/fuel oil-fired boiler	None	None

2. Additional Terms and Conditions

1. None

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II. Operational Restrictions

1. None

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III. Monitoring and/or Record Keeping Requirements

1. None

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IV. Reporting Requirements

1. None

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V. Testing Requirements

1. None

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VI. **Miscellaneous Requirements**

- 1. None

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Facility ID: 1667040085 Emissions Unit ID: B007 Issuance type: Title V Preliminary Proposed 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>
121 million Btu/hr rated heat input natural gas/fuel oil-fired boiler	OAC rule 3745-31-05(A)(3) (PTI 16-02332)	Visible particulate emissions (PE) shall not exceed 20% opacity, as a six-minute average. 0.020 lb PE/mmBtu heat input 0.55 lb sulfur dioxide (SO2)/mmBtu heat input when burning gas: 0.16 lb nitrogen oxides (NOx)/mmBtu heat input 0.16 lb carbon monoxide (CO)/mmBtu heat input when burning oil: 0.20 lb NOx/mmBtu heat input 0.18 lb CO/mmBtu heat input The requirements of this rule also include compliance with the requirements of OAC rule 3745-31-05(C), and Part III, Section A.II below. The emission control requirements specified by these rules are less stringent than the emission control requirements established pursuant to OAC rule 3745-31-05(A)(3). See A.I.2.b below. See A.I.2.c below. The following annual emission limits, for B006 through B010 combined, are based upon a rolling, 12-month summation of the monthly emissions, and are restricted by the federally enforceable production limitations of Part III, Section A.II: 87.0 tons/year of CO; 99.0 tons/year of NOx; 9.5 tons/year of PE; and 99.0 tons/year of SO2.
	40 CFR 60.42b 40 CFR 60.43b 40 CFR 60.44b OAC rule 3745-17-07(A) OAC rule 3745-17-10(B) OAC rule 3745-18-06(D) OAC rule 3745-21-08(B) OAC rule 3745-21-07(B) OAC 3745-23-06(B) 40 CFR Part 75 OAC rule 3745-103 OAC rule 3745-31-05(C)	

2. **Additional Terms and Conditions**

- a. The mass emission limitations for PE, SO2, NOx, and CO established pursuant to OAC rule 3745-31-05 (A)(3) are equal to or greater than the potential to emit for this emissions unit. Therefore, no additional monitoring, record keeping, or reporting requirements are necessary to demonstrate compliance with these emission limitations.

(a)

However, if any proposed change(s), such as with fuel grade, quality, and/or heat content, heat input capacity, equipment changeover, etc., or any other change(s), increase(s) the potential to emit, then the permittee shall apply for and obtain either a modification to the permit to install or a new final permit to install prior to the change(s).

- b. The permittee satisfies the "best available control techniques and operating practices" and "latest available control techniques and operating practices" required pursuant to OAC rule 3745-21-08 and 3745-21-07(B), respectively, by complying with the best available technology requirements of OAC rule 3745-31-05(A)(3).

On November 5, 2002, OAC rule 3745-21-08 was revised to delete paragraph (B); therefore, paragraph (B) is no longer part of the State regulations. However, that rule revision has not yet been submitted to the U.S. EPA as a revision to Ohio's State Implementation Plan (SIP). Therefore, until the SIP revision occurs and the U.S. EPA approves the revisions to OAC rule 3745-21-08, the requirement to satisfy the "best available control techniques and operating practices" still exists as part of the federally-approved SIP for Ohio.

- c. If the permittee is subject to the requirements of 40 CFR Part 72 and 75 concerning acid rain, the permittee shall ensure that any effected emissions unit complies with those requirements. Emissions exceeding any allowances that are lawfully held under Title IV of the Act, or any regulations adopted thereunder, are prohibited.

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II. Operational Restrictions

- The permittee shall burn only natural gas and/or No. 2 fuel oil as fuel in this emissions unit. The No. 2 fuel oil shall contain no more than 0.48%, by weight, of sulfur and shall meet the distillate oil and very low sulfur oil definitions of 40 CFR 60.41b.
(Authority for term: OAC rule 3745-31-05(A)(3) and OAC rule 3745-77-07(A)(1))
- If burned exclusively, with no usage of gas, the maximum annual oil usage for emissions units B006 through B008, combined, shall not exceed 2.627 million gallons based upon a rolling, 12-month summation of the monthly oil usage rates.
(Authority for term: OAC rule 3745-31-05(A)(3), OAC rule 3745-31-05(C), and OAC rule 3745-77-07(A)(1))
- If burned exclusively, with no usage of gas, the maximum annual oil usage for emissions unit B008 shall not exceed 0.740 million gallons based upon a rolling, 12-month summation of the monthly oil usage rates.
(Authority for term: OAC rule 3745-31-05(A)(3), OAC rule 3745-31-05(C), and OAC rule 3745-77-07(A)(1))
- If burned exclusively, with no usage of oil, the maximum annual gas usage for emissions units B006 through B010, combined, shall not exceed 1414 million cubic feet based upon a rolling, 12-month summation of the monthly gas usage rates.
(Authority for term: OAC rule 3745-31-05(A)(3), OAC rule 3745-31-05(C), and OAC rule 3745-77-07(A)(1))
- If oil is substituted for gas in emissions units B006 and/or B007, then the annual limit of 1414 million cubic feet of natural gas shall be reduced by 71.5 cubic feet for each gallon of oil burned.
(Authority for term: OAC rule 3745-31-05(A)(3), OAC rule 3745-31-05(C), and OAC rule 3745-77-07(A)(1))
- If oil is substituted for gas in emissions unit B008, then the annual limit of 1414 million cubic feet of natural gas shall be reduced by 540 cubic feet for each gallon of oil burned.
(Authority for term: OAC rule 3745-31-05(A)(3), OAC rule 3745-31-05(C), and OAC rule 3745-77-07(A)(1))
- Consequent to the results from emission compliance testing conducted on June 13, 2002, and pursuant to OAC rule 3745-17-10(B)(3), the heat input for this emissions unit, when burning oil, is derated from 121 mmBtu/hr to 84.7 mmBtu/hr. Correspondingly, when burning oil, at no time shall the steam flow rate from this emissions unit exceed 70,000 lbs/hr (as an average over any one-hour period).

The steam flow rate output restriction of this emissions unit may be removed upon written approval from the Director (the appropriate Ohio EPA District Office or local air agency) and without need of formal permit modification or issuance of a new permit, provided the permittee retests this emissions unit and demonstrates compliance when burning oil at or near the maximum rated heat input of 121 mmBtu/hr and steam flow rate output of 100,000 lbs/hr, following the requirements of V.3 "Test Requirements" below.

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III. Monitoring and/or Record Keeping Requirements

- The permittee shall maintain fuel receipts from the fuel supplier listing the ASTM D396-78 specifications (including fuel oil number and weight percent sulfur content), and certifying that the oil meets the definitions of distillate oil and very low sulfur oil of 40 CFR 60.41b.
(Authority for term: OAC rule 3745-31-05(A)(3) and OAC rule 3745-77-07(C)(1))
- The permittee shall maintain monthly records of the following information for emissions units B006 through B010, combined:

- a. the monthly amount of oil burned (gallons);
 - b. the rolling, 12-month amount of oil burned (gallons);
 - c. the monthly amount of gas burned (cubic feet);
 - d. the rolling, 12-month amount of gas burned (cubic feet);
 - e. the monthly emissions (tons) for each of CO, NOx, PE, and SO₂; and
 - f. the rolling, 12-month emission rates (tons) for each CO, NOx, PE, and SO₂.
(Authority for term: OAC rule 3745-31-05(A)(3), OAC rule 3745-31-05(C), and OAC rule 3745-77-07(C)(1))
3. In accordance with 40 CFR Part 60.48b, for the combustion of oil, the permittee shall install, calibrate, maintain, and operate a continuous opacity monitoring system (COMS) for measuring the opacity of PE from this emissions unit discharged to the atmosphere, and record the output of the system in units of the applicable standard. Such continuous monitoring and recording equipment shall comply with the requirements specified in 40 CFR Part 60.13.
- Prior to the installation of the COMS, 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.
- (Authority for term: OAC rule 3745-31-05(A)(3) and OAC rule 3745-77-07(C)(1))
4. In accordance with 40 CFR Part 60.48b, the permittee shall install, calibrate, maintain, and operate a continuous emission monitoring (CEM) system for measuring NO_x emissions discharged to the atmosphere and record the output of the system in units of the applicable standard. Such continuous monitoring and recording equipment shall comply with the requirements specified in 40 CFR Part 60.13.
- Prior to the installation of the NO_x CEM, 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 2 for approval by the Ohio EPA, Central Office.
- (Authority for term: OAC rule 3745-31-05(A)(3) and OAC rule 3745-77-07(C)(1))
5. Span values for NO_x shall be determined in accordance with 40 CFR 60.48b(e).
 6. When NO_x emission data are not obtained because of CEM system breakdowns, repairs, calibration checks, and zero and span adjustments, emission data will be obtained by using standby monitoring systems, Method 7, Method 7A, or other approved reference methods to provide emission data for a minimum of 75 percent of the operating hours in each steam generating unit operating day, in at least 22 out of 30 successive steam generating unit operating days.
(Authority for term: OAC rule 3745-31-05(A)(3) and OAC rule 3745-77-07(C)(1))
 7. In accordance with 40 CFR 60.49b(g), the permittee shall maintain records of the following information for each steam generating unit operating day:
 - a. calendar date;
 - b. the average hourly NO_x emission rates (lb/million Btu heat input) measured or predicted;
 - c. the 30-day average NO_x emission rates (lb/million Btu heat input) calculated at the end of each steam generating unit operating day from the measured or predicted hourly NO_x emission rates or the preceding 30 steam generating unit operating days;
 - d. identification of the steam generating unit operating days when the calculated 30-day average NO_x emission rates are in excess of the NO_x emissions standards, with the reasons for such excess emissions as well as a description of corrective actions taken;
 - e. identification of the steam generating unit operating days for which pollutant data have not been obtained, including reasons for not obtaining sufficient data and a description of corrective actions taken;
 - f. identification of times when emission data have been excluded from the calculation of average emission rates and the reasons for excluding data;
 - g. identification of "F" factor used for calculations, method of determination, and type of fuel combusted;
 - h. identification of the times when the pollutant concentration exceeded full span of the CEM system;
 - i. description of any modifications to the CEM system that could affect the ability of the system to comply with Performance Specification 2 or 3; and
 - j. results of daily CEM systems drift tests.
(Authority for term: OAC rule 3745-31-05(A)(3) and OAC rule 3745-77-07(C)(1))
 8. The permittee shall maintain daily records of the following information for this emissions unit:
 - a. The total summation of steam flow from this emissions unit, in pounds/day;
 - b. The total hours of steam flow from this emissions unit, in hours/day; and

c. The average hourly steam flow rate from this emissions unit, in pounds/hour, i.e., $c = a/b$.

Copies of all steam flow records for this emissions unit shall be maintained for a period of not less than 5 years, and shall be made available to the Director (appropriate Ohio EPA District Office or local air agency) upon verbal or written request.

(Authority for term: OAC rule 3745-31-05(A)(3) and OAC rule 3745-77-07(C)(1))

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IV. Reporting Requirements

1. The permittee shall submit quarterly reports certifying no fuel, except as specified above in Part III, A.II Operational Restrictions, was burned in this emissions unit during the preceding calendar quarter.

(Authority for term: OAC rule 3745-31-05(A)(3) and OAC rule 3745-77-07(C)(1))

2. The permittee shall submit quarterly deviation (excursion) reports that identify all exceedances of the rolling, 12-month fuel usage rates, each for oil and gas, as specified in Part III, A.II Operational Restrictions, as well as the corrective actions that were taken to achieve compliance.

(Authority for term: OAC rule 3745-31-05(A)(3) and OAC rule 3745-77-07(C)(1))

3. The permittee shall submit quarterly deviation (excursion) reports that identify all exceedances of the rolling, 12-month emission rates, for CO, NO_x, PE, and SO₂, for emissions units B006 through B010, combined, as well as the corrective actions that were taken to achieve compliance.

(Authority for term: OAC rule 3745-31-05(A)(3) and OAC rule 3745-77-07(C)(1))

4. The permittee shall submit notification of the date of initial startup, as provided by 40 CFR 60.7. The notification shall include the design heat input capacity of the steam generating unit(s) and identification of the fuels to be combusted in the subject units.

(Authority for term: OAC rule 3745-31-05(A)(3) and OAC rule 3745-77-07(C)(1))

5. The permittee shall submit to the Administrator the performance test data from the initial emissions test and the performance evaluation of the continuous monitoring systems using the applicable performance specifications in 40 CFR Part 60, Appendix B.

(Authority for term: OAC rule 3745-31-05(A)(3) and OAC rule 3745-77-07(C)(1))

6. The permittee shall submit a quarterly report containing the information recorded under 40 CFR 60.49b(g).

(Authority for term: OAC rule 3745-31-05(A)(3) and OAC rule 3745-77-07(C)(1))

7. If for any reason the steam flow rate from this emissions unit exceeded 70,000 lbs/hr, when burning oil, the following information shall be reported within 5 business days after the exceedance:

- a. the date of the exceedance;
- b. the time interval over which the exceedance occurred;
- c. the value of the exceedance;
- d. the cause(s) of the exceedance;
- e. the corrective action which has been or will be taken to prevent similar exceedances in the future; and
- f. a copy of the steam chart which shows the exceedance.

(Authority for term: OAC rule 3745-31-05(A)(3) and OAC rule 3745-77-07(C)(1))

8. Unless specified otherwise, all above quarterly deviation reports shall be submitted in accordance with the deadlines and other requirements specified in Part I - General Term and Condition 2 of this permit.

(Authority for term: OAC rule 3745-31-05(A)(3) and OAC rule 3745-77-07(C)(1))

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V. Testing Requirements

1. Compliance with the emission limitations of OAC rule 3745-31-05(A)(3) in Part III, Section A.1.1 of these terms and conditions shall be demonstrated in accordance with the following methods, using applicable emission factors from US EPA reference document AP-42, Fifth Edition, Tables 1.3-1, 1.4-1, and 1.4-2, and heat contents of 137,000 Btu/gallon of oil & 1000 Btu/cubic foot of gas:

- a. Emission Limitation: Visible PE shall not exceed 20% opacity, as a six-minute average.

Applicable Compliance Method: Compliance with the visible PE shall be demonstrated in accordance with Method 9 of 40 CFR Part 60, Appendix A.

(Authority for term: OAC rule 3745-77-07(C)(1) and OAC rule 3745-17-03(B)(1))

b. Emission Limitation: 0.020 lb PE/mmBtu heat input

Applicable Compliance Method: The potential to emit is less than the above emission limitation, as demonstrated in the equations below:

when burning gas:

$$E = GP/H$$

where,

E = 0.0019 lb PE/mmBtu heat input [potential to emit];
G = 0.121 mm cu ft/hr [design fuel usage];
P = 1.9 lbs PE/mm cu ft [emission factor]; and
H = 121 mmBtu/hr [design heat input capacity].

when burning oil:

$$E = OP/H$$

where,

E = 0.01 lb PE/mmBtu heat input [potential to emit];
O = 883 gals/hr [design fuel usage];
P = 2 lbs PE/1000 gals [emission factor]; and
H = 121 mmBtu/hr [design heat input capacity].

If required, the permittee shall demonstrate compliance based on the results of emission testing conducted in accordance with 40 CFR Part 60, Appendix A, Methods 1 - 5.

(Authority for term: OAC rule 3745-17-03(B)(9), OAC rule 3745-31-05(A)(3) and OAC rule 3745-77-07(C)(1))

c. Emission Limitation: 0.55 lb SO₂/mmBtu heat input

Applicable Compliance Method: The potential to emit is equal to the above emission limitation, as demonstrated in the equation below:

when burning gas:

Compliance with this limitation will be assumed due to the negligible % sulfur content of natural gas.

when burning oil:

$$E = OS/H$$

where,

E = 0.55 lb SO₂/mmBtu heat input [potential to emit];
O = 883 gals/hr [design fuel usage];
S = 75.36 lbs SO₂/1000 gals [emission factor]; and
H = 121 mmBtu/hr [design heat input capacity].

If required, the permittee shall demonstrate compliance based on the results of emission testing conducted in accordance with 40 CFR Part 60, Appendix A, Methods 1 - 4 and 6.

(Authority for term: OAC rule 3745-18-04(F)(2), OAC rule 3745-18-04(E), OAC rule 3745-31-05(A)(3) and OAC rule 3745-77-07(C)(1))

d. Emission Limitations: 0.16 lb NO_x/mmBtu heat input (when burning gas); and
0.20 lb NO_x/mmBtu heat input (when burning oil)

Applicable Compliance Method: The potential to emit is less than the above emission limitations, as demonstrated in the equations below:

when burning gas:

$$E = GN/H$$

where,

E = 0.14 lb NO_x/mmBtu heat input [potential to emit];
G = 0.121 mm cu ft/hr [design fuel usage];
N = 140 lbs NO_x/mm cu ft [emission factor]; and
H = 121 mmBtu/hr [design heat input capacity].

when burning oil:

$$E = ON/H$$

where,

E = 0.073 lb NO_x/mmBtu heat input [potential to emit];

O = 883 gals/hr [design fuel usage];
 N = 10 lbs NOx/1000 gals [emission factor]; and
 H = 121 mmBtu/hr [design heat input capacity].

If required, the permittee shall demonstrate compliance based on the results of emission testing conducted in accordance with 40 CFR Part 60, Appendix A, Methods 1 - 4 and 7E.

(Authority for term: OAC rule 3745-31-05(A)(3) and OAC rule 3745-77-07(C)(1))

- e. Emission Limitation: 0.16 lb CO/mmBtu heat input (when burning gas); and
 0.18 lb CO/mmBtu heat input (when burning oil)

Applicable Compliance Method: The potential to emit is less than the above emission limitations, as demonstrated in the equations below:

when burning gas:

$$E = GC/H$$

where,

E = 0.084 lb CO/mmBtu heat input [potential to emit];
 G = 0.121 mm cu ft/hr [design fuel usage];
 C = 84 lbs CO/mm cu ft [emission factor]; and
 H = 121 mmBtu/hr [design heat input capacity].

when burning oil:

$$E = OC/H$$

where,

E = 0.04 lb CO/mmBtu heat input [potential to emit];
 O = 883 gals/hr [design fuel usage];
 C = 5 lbs CO/1000 gals [emission factor]; and
 H = 121 mmBtu/hr [design heat input capacity].

If required, the permittee shall demonstrate compliance based on the results of emission testing conducted in accordance with 40 CFR Part 60, Appendix A, Methods 1 - 4 and 10.

(Authority for term: OAC rule 3745-31-05(A)(3) and OAC rule 3745-77-07(C)(1))

2. Compliance with the annual CO, NOx, PE, and SO2 emission limitations of OAC rule 3745-31-05 (C) in Part III, Section A.I.1 of these terms and conditions shall be demonstrated in accordance with the emissions determination, as required in the record keeping section of Part III, Section A.III.2 above, using the synthetic minor potential to emit strategy contained in the "Permit to Install Application Supporting Documentation" prepared 10/21/03 by David Marczylo, Environmental Design Group, 450 Grant Street, Akron, Ohio 44311, included in the application.

(Authority for term: OAC rule 3745-31-05(A)(3) and OAC rule 3745-77-07(C)(1))

3. The permittee shall conduct emission and continuous emission monitoring (CEM) equipment performance testing for this emissions unit in accordance with the following requirements:

- a. The testing shall be conducted in the period 18 to 6 months prior to the permit expiration.
- b. The emission testing shall be conducted to demonstrate compliance with the allowable mass emission rate (s) for NOx, in the appropriate averaging period(s), and the CEM performance testing shall be conducted, as required under 40 CFR 60.46b, in accordance with 40 CFR 60.8, using the continuous system for monitoring nitrogen oxides under 40 CFR 60.48b.
- c. The following test method(s) shall be employed to demonstrate compliance with the allowable mass emission rate(s):

7E.

Alternative U.S. EPA approved test methods may be used with prior approval from the Ohio EPA.

d. The test(s) 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.

e. 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(s), and the person(s) who will be conducting the test(s). 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(s).

- f. Personnel from the appropriate Ohio EPA District Office or local air agency shall be permitted to witness the test(s), 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.

g. A comprehensive written report on the results of the emissions test(s) shall be signed by the person or persons responsible for the tests and submitted to the appropriate Ohio EPA District Office or local air

agency within 30 days following completion of the test(s). The permittee may request additional time for the submittal of the written report, where warranted, with prior approval from the appropriate Ohio EPA District Office or local air agency.

(Authority for term: OAC rule 3745-31-05(A)(3) and OAC rule 3745-77-07(C)(1))

4. The permittee shall conduct, or have conducted, performance testing of the COMS in accordance with the requirements of 40 CFR Part 60, Appendix B, Performance Specification 1 and ASTM D 6216-98, following the manufacturer's specified quality assurance procedures. Personnel from the appropriate Ohio EPA District Office or local air agency shall be notified prior to initiation of the applicable tests and shall be permitted to examine equipment and witness the certification tests. Copies of the test results shall be submitted to Ohio EPA Central Office and Akron Air Quality.

(Authority for term: OAC rule 3745-31-05(A)(3) and OAC rule 3745-77-07(C)(1))

5. The permittee demonstrated compliance with the NOx emission standards of OAC rule 3745-31-05 (A)(3) in Part III, Section A.I.1 at or near design capacity, while burning gas, and successfully completed certification of the NOx CEM system, in accordance with 40 CFR 60.8, 40 CFR 60.46b, and 40 CFR 60, Appendix B, Performance Specifications 2 & 3, during the emissions and performance testing conducted on December 12, 2001. A final test report was received at this office on January 14, 2002.

The permittee demonstrated compliance with the NOx and opacity emission standards of OAC rule 3745-31-05(A)(3) in Part III, Section A.I.1 at 70% of design capacity, while burning oil, during the emissions testing conducted on June 13, 2002. A final test report was received at this office on July 15, 2002.

(Authority for term: OAC rule 3745-31-05(A)(3) and OAC rule 3745-77-07(C)(1))

6. The permittee shall have the option to remove the deration and corresponding steam flow rate output restriction of Part III, Section A.II.10 above by conducting emission testing of this emissions unit, when burning oil, in accordance with the following requirements:

- a. The emission testing shall be conducted to demonstrate compliance with the visible particulate emissions limitation (% opacity) and the NOx mass emissions limitation (lbs NOx/mmBtu heat input), when burning oil.

- b. The tests shall demonstrate compliance with the following allowable emission rates using the specified test methods:

20% opacity as a six-minute average, using Method 9 of 40 CFR Part 60, Appendix A; and

0.20 lb NOx/mmBtu heat input, using Method 7E of 40 CFR Part 60, Appendix A.

Alternative U.S. EPA approved test methods may be used with prior approval from the Ohio EPA.

- c. The tests 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(s), and the person(s) who will be conducting the test(s). 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(s).

Personnel from the appropriate Ohio EPA District Office or local air agency shall be permitted to witness the test(s), 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(s) shall be signed by the person or persons responsible for the tests and submitted to the appropriate Ohio EPA District Office or local air agency within 30 days following completion of the test(s). The permittee may request additional time for the submittal of the written report, where warranted, with prior approval from the appropriate Ohio EPA District Office or local air agency.

(Authority for term: OAC rule 3745-31-05(A)(3) and OAC rule 3745-77-07(C)(1))

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VI. Miscellaneous Requirements

1. Modeling to demonstrate compliance with the Ohio EPA's "Air Toxic Policy" was not necessary because the emissions unit's maximum annual emissions for each toxic compound will be less than 1.0 ton. OAC Chapter 3745-31 requires permittees to apply for and obtain a new or modified permit to install prior to making a "modification" as defined by OAC rule 3745-31-01. The permittee is hereby advised that changes in the composition of the materials, or use of new materials, that would cause the emissions of any pollutant that has a listed TLV to increase above 1.0 ton per year may require the permittee to apply for and obtain a new permit to install.

(Authority for term: OAC rule 3745-31-05(A)(3) and OAC rule 3745-77-07(C)(1))

2. The application and enforcement of the provisions of the New Source Performance Standards (NSPS), as promulgated by the United States Environmental Protection Agency, 40 CFR Part 60, are delegated to the Ohio Environmental Protection Agency. The requirements of 40 CFR Part 60 are also federally enforceable.

(Authority for term: OAC rule 3745-31-05(A)(3) and OAC rule 3745-77-07(C)(1))

3. Within 180 days of the effective date of PTI 16-02332, if not already done so, the permittee shall develop a written quality assurance/quality control plan for the COMS 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 and a description of preventive maintenance activities. The quality assurance/quality control plan and a logbook dedicated to the COMS must be kept on site and available for inspection during regular office hours.

(Authority for term: OAC rule 3745-31-05(A)(3) and OAC rule 3745-77-07(C)(1))

4. Within 180 days of the effective date of PTI 16-02332, if not already done so, the permittee shall develop a written quality assurance/quality control plan for the NOx CEMS designed to ensure continuous valid and representative readings of NOx emissions in units of the applicable standard. The plan shall include, as a minimum, conducting and recording daily automatic zero/span checks and a description of preventive maintenance activities. The quality assurance/quality control plan and a logbook dedicated to the NOx CEMS must be kept on site and available for inspection during regular office hours.

(Authority for term: OAC rule 3745-31-05(A)(3) and OAC rule 3745-77-07(C)(1))

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Facility ID: 1667040085 Emissions Unit ID: B007 Issuance type: Title V Preliminary Proposed 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>
121 million Btu/hr rated heat input natural gas/fuel oil-fired boiler	None	None

2. Additional Terms and Conditions

1. None

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II. Operational Restrictions

1. None

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III. Monitoring and/or Record Keeping Requirements

1. None

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IV. Reporting Requirements

1. None

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V. Testing Requirements

1. None

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VI. **Miscellaneous Requirements**

1. None

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Facility ID: 1667040085 Emissions Unit ID: B008 Issuance type: Title V Preliminary Proposed 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>
64.18 mmBtu/hr rated heat input natural gas/fuel oil-fired cogeneration gas turbine driving a 5 MW rated power output electrical generator and a heat recovery steam generator	OAC rule 3745-31-05(A)(3)	Visible particulate emissions (PE) shall not exceed 20% opacity, as a six-minute average. 0.014 lb PE/mmBtu heat input 0.13 lb carbon monoxide (CO)/mmBtu heat input
		when burning gas: 0.10 lb nitrogen oxides (NOx)/mmBtu heat input (25 ppmvd, mathematically adjusted to 15% oxygen as a diluent)
		when burning oil: 0.40 lb NOx/mmBtu heat input (98 ppmvd, mathematically adjusted to 15% oxygen as a diluent)
		The requirements of this rule also include compliance with the requirements of OAC rule 3745-31-05(C), and Part III, Section A.II below.
	OAC rule 3745-18-06(F)	0.5 lb sulfur dioxide (SO2)/mmBtu heat input
	40 CFR 60.332	The emission control requirements specified by these rules are less stringent than the emission control requirements established pursuant to OAC rule 3745-31-05(A)(3).
	40 CFR 60.333	Part III, Section A.I.2.b.
	OAC rule 3745-17-07(A)	
	OAC rule 3745-17-11(B)(4)	
	OAC rule 3745-21-08(B)	
	OAC rule 3745-21-07(B)	
	OAC 3745-23-06(B)	
	40 CFR Part 75	Part III, Section A.I.2.c.
	OAC rule 3745-103	
	OAC rule 3745-31-05(C)	The following annual emissions limits, for B006 through B010 combined, are based upon a rolling, 12-month summation of the monthly emissions, and are restricted by the federally enforceable production limitations of Part III, Section A.II: 87.0 tons/year of CO; 99.0 tons/year of NOx; 9.5 tons/year of PE; and 99.0 tons/year of SO2.

2. **Additional Terms and Conditions**

- a. The mass emission limitations for PE, NOx, and CO established pursuant to OAC rule 3745-31-05(A)(3) are equal to or greater than the potential to emit for this emissions unit. Therefore, no additional

monitoring, record keeping, or reporting requirements are necessary to demonstrate compliance with these emission limitations.

- (a) However, if any proposed change(s), such as with fuel grade, quality, and/or heat content, heat input capacity, equipment changeover, etc., or any other change(s), increase(s) the potential to emit, then the permittee shall apply for and obtain either a modification to the permit to install or a new final permit to install prior to the change(s).
- b. The permittee satisfies the "best available control techniques and operating practices" and "latest available control techniques and operating practices" required pursuant to OAC rule 3745-21-08 and 3745-21-07(B), respectively, by complying with the best available technology requirements of OAC rule 3745-31-05(A)(3).
- On November 5, 2002, OAC rule 3745-21-08 was revised to delete paragraph (B); therefore, paragraph (B) is no longer part of the State regulations. However, that rule revision has not yet been submitted to the U.S. EPA as a revision to Ohio's State Implementation Plan (SIP). Therefore, until the SIP revision occurs and the U.S. EPA approves the revisions to OAC rule 3745-21-08, the requirement to satisfy the "best available control techniques and operating practices" still exists as part of the federally-approved SIP for Ohio.
- c. If the permittee is subject to the requirements of 40 CFR Part 72 and 75 concerning acid rain, the permittee shall ensure that any effected emissions unit complies with those requirements. Emissions exceeding any allowances that are lawfully held under Title IV of the Act, or any regulations adopted thereunder, are prohibited.

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II. Operational Restrictions

1. No oil, except No. 2 fuel oil with a heat content of at least 137,000 Btu/gal, and containing no more than 0.48%, by weight sulfur, and 3%, by weight nitrogen, shall be burned in this emissions unit.
(Authority for term: OAC rule 3745-31-05(A)(3) and OAC rule 3745-77-07(A)(1))
2. No fuels, other than the oil specified above and natural gas, shall be burned in this emissions unit.
(Authority for term: OAC rule 3745-31-05(A)(3) and OAC rule 3745-77-07(A)(1))
3. If burned exclusively, with no usage of gas, the maximum annual oil usage for emissions units B006 through B008, combined, shall not exceed 2.627 million gallons based upon a rolling, 12-month summation of the monthly oil usage rates.
(Authority for term: OAC rule 3745-31-05(A)(3), OAC rule 3745-31-05(C), and OAC rule 3745-77-07(A)(1))
4. If burned exclusively, with no usage of gas, the maximum annual oil usage for emissions unit B008 shall not exceed 0.740 million gallons based upon a rolling, 12-month summation of the monthly oil usage rates.
(Authority for term: OAC rule 3745-31-05(A)(3), OAC rule 3745-31-05(C), and OAC rule 3745-77-07(A)(1))
5. If burned exclusively, with no usage of oil, the maximum annual gas usage for emissions units B006 through B010, combined, shall not exceed 1414 million cubic feet based upon a rolling, 12-month summation of the monthly gas usage rates.
(Authority for term: OAC rule 3745-31-05(A)(3), OAC rule 3745-31-05(C), and OAC rule 3745-77-07(A)(1))
6. If oil is substituted for gas in emissions units B006 and/or B007, then the annual limit of 1414 million cubic feet of natural gas shall be reduced by 71.5 cubic feet for each gallon of oil burned.
(Authority for term: OAC rule 3745-31-05(A)(3), OAC rule 3745-31-05(C), and OAC rule 3745-77-07(A)(1))
7. If oil is substituted for gas in emissions unit B008, then the annual limit of 1414 million cubic feet of natural gas shall be reduced by 540 cubic feet for each gallon of oil burned.
(Authority for term: OAC rule 3745-31-05(A)(3), OAC rule 3745-31-05(C), and OAC rule 3745-77-07(A)(1))

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III. Monitoring and/or Record Keeping Requirements

1. The permittee shall monitor the volume (i.e., the respective gallons of oil), and associated % by weight sulfur, % by weight nitrogen and Btu/gal of the oil burned in the turbine. The frequency of determination of these values shall be as follows:
 - a. If the turbine is supplied fuel oil from a bulk storage tank, the values shall be determined by sampling each delivery prior to combining it with fuel oil already in the intended storage tank.
 - b. If the turbine is supplied fuel oil without intermediate bulk storage, the values shall be determined and recorded daily. The permittee or fuel oil vendors may develop custom schedules for determination of the values based on the design and operation of the affected facility and the characteristics of the fuel oil supply. These custom schedules shall be substantiated with data and must be approved by the administrator before they can be used to comply with this section.

(Authority for term: OAC rule 3745-31-05(A)(3) and OAC rule 3745-77-07(C)(1))

2. The permittee shall maintain monthly records of the following information for emissions units B006 through B010, combined:
 - a. the monthly amount of oil burned (gallons);
 - b. the rolling, 12-month amount of oil burned (gallons);
 - c. the monthly amount of gas burned (cubic feet);
 - d. the rolling, 12-month amount of gas burned (cubic feet);
 - e. the monthly emissions (tons) for each of CO, NOx, PE, and SO₂; and
 - f. the rolling, 12-month emission rates (tons) for each CO, NOx, PE, and SO₂.

(Authority for term: OAC rule 3745-31-05(A)(3), OAC rule 3745-31-05(C), and OAC rule 3745-77-07(C)(1))

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IV. Reporting Requirements

1. The permittee shall submit quarterly reports certifying no fuel, except as specified above, was burned in this emissions unit during the preceding calendar quarter.

(Authority for term: OAC rule 3745-31-05(A)(3) and OAC rule 3745-77-07(C)(1))

2. The permittee shall submit quarterly deviation (excursion) reports that identify all exceedances of the rolling, 12-month fuel usage rates, each for oil and gas, as specified in Part III, A.II Operational Restrictions, as well as the corrective actions that were taken to achieve compliance.

(Authority for term: OAC rule 3745-31-05(A)(3) and OAC rule 3745-77-07(C)(1))

3. The permittee shall submit quarterly deviation (excursion) reports that identify all exceedances of the rolling, 12-month emission rates, for CO, NOx, PE, and SO₂, for emissions units B006 through B010, combined, as well as the corrective actions that were taken to achieve compliance.

(Authority for term: OAC rule 3745-31-05(A)(3) and OAC rule 3745-77-07(C)(1))

4. Unless specified otherwise, all above quarterly deviation reports shall be submitted in accordance with the deadlines and other requirements specified in Part I - General Term and Condition 2 of this permit.

(Authority for term: OAC rule 3745-31-05(A)(3) and OAC rule 3745-77-07(C)(1))

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V. Testing Requirements

1. Compliance with the emission limitations of OAC rule 3745-31-05(A)(3) in Part III, Section A.1.1 of these terms and conditions shall be demonstrated in accordance with the following methods, assuming heat contents of 137,000 Btu/gallon of oil & 1000 Btu/cubic foot of gas:
[Note: Burning No.2 fuel (distillate) oil represents the worst-case potential emissions of PE, SO₂, NOx, and CO from this emissions unit.]

- a. Emission Limitation: Visible PE shall not exceed 20% opacity, as a six-minute average.

Applicable Compliance Method: Compliance with the visible PE shall be demonstrated in accordance with Method 9 of 40 CFR Part 60, Appendix A.

(Authority for term: OAC rule 3745-77-07(C)(1) and OAC rule 3745-17-03(B)(1))

- b. Emission Limitation: 0.014 lb PE/mmBtu heat input

Applicable Compliance Method: The potential to emit is equal to the above emissions limitation, as demonstrated below:

$E = 0.014 \text{ lb PE/mmBtu heat input}$ [potential emissions per AP-42, 9/98, Table 3.1-1].

If required, the permittee shall demonstrate compliance based on the results of emission testing conducted in accordance with 40 CFR Part 60, Appendix A, Methods 1 - 5.

(Authority for term: OAC rule 3745-17-03(B)(9), OAC rule 3745-31-05(A)(3) and OAC rule 3745-77-07(C)(1))

- c. Emission Limitation: 0.5 lb SO₂/mmBtu heat input

Applicable Compliance Method: The potential to emit is less than the above emission limitation, as demonstrated below:

E = 0.48 lb SO₂/mmBtu heat input [AP-42, 4/00, Table 3.1-2a, distillate oil-fired].

If required, the permittee shall demonstrate compliance based on the results of emission testing conducted in accordance with 40 CFR Part 60, Appendix A, Methods 1 - 4 and 6.

(Authority for term: OAC rule 3745-18-04(F)(2), OAC rule 3745-18-04(E), OAC rule 3745-31-05(A)(3) and OAC rule 3745-77-07(C)(1))

- d. Emission Limitations: 0.10 lb NO_x/mmBtu heat input (natural gas); & 0.40 lb NO_x/mmBtu heat input (No. 2 fuel oil)
- Applicable Compliance Method: The potential to emit is equal to the above emission limitations, as demonstrated below:
- E = 0.10 lb NO_x/mmBtu heat input [manufacturer's specifications, natural gas-fired]; &
E = 0.40 lb NO_x/mmBtu heat input [manufacturer's specifications, distillate oil-fired];
- If required, the permittee shall demonstrate compliance based on the results of emission testing conducted in accordance with 40 CFR Part 60, Appendix A, Methods 1 - 4 and 7E.
- (Authority for term: OAC rule 3745-31-05(A)(3) and OAC rule 3745-77-07(C)(1))
- e. Emission Limitation: 0.13 lb CO/mmBtu heat input
- Applicable Compliance Method: The potential to emit is equal to the above emission limitation, as demonstrated below:
- E = 0.13 lb CO/mmBtu heat input [manufacturer's specifications, distillate oil-fired];
- If required, the permittee shall demonstrate compliance based on the results of emission testing conducted in accordance with 40 CFR Part 60, Appendix A, Methods 1 - 4 and 10.
- (Authority for term: OAC rule 3745-31-05(A)(3) and OAC rule 3745-77-07(C)(1))
2. Compliance with the fuel sulfur content and nitrogen content restrictions of this permit shall be determined by any qualified person as follows:
- a. sulfur content: ASTM D 2880-71 shall be used for liquid fuels, and ASTM D 1072-80, D 3031-81, D 4084-82, or D 3246-81 shall be used for gaseous fuels. The applicable ranges of some ASTM methods mentioned above are not adequate to measure the levels of sulfur in some fuel gases. Dilution of samples before analysis (with verification of the dilution ratio) may be used, subject to the approval of the Administrator.
- b. nitrogen content: analytical methods and procedures shall be used for the fuel burned that are accurate to within 5% and are approved by the Administrator.
- (Authority for term: OAC rule 3745-31-05(A)(3) and OAC rule 3745-77-07(C)(1))
3. Compliance with the annual CO, NO_x, PE, and SO₂ emission limitations of OAC rule 3745-31-05 (C) in Part III, Section A.I.1 of these terms and conditions shall be demonstrated in accordance with the emissions determination, as required in the record keeping section of Part III, Section A.III.2 above, using the synthetic minor potential to emit strategy contained in the "Permit to Install Application Supporting Documentation" prepared 10/21/03 by David Marczylo, Environmental Design Group, 450 Grant Street, Akron, Ohio 44311, included in the application.
- (Authority for term: OAC rule 3745-31-05(A)(3) and OAC rule 3745-77-07(C)(1))

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VI. **Miscellaneous Requirements**

1. Modeling to demonstrate compliance with the Ohio EPA's "Air Toxic Policy" was not necessary because the emissions unit's maximum annual emissions for each toxic compound will be less than 1.0 ton. OAC Chapter 3745-31 requires permittees to apply for and obtain a new or modified permit to install prior to making a "modification" as defined by OAC rule 3745-31-01. The permittee is hereby advised that changes in the composition of the materials, or use of new materials, that would cause the emissions of any pollutant that has a listed TLV to increase above 1.0 ton per year may require the permittee to apply for and obtain a new permit to install.
- (Authority for term: OAC rule 3745-31-05(A)(3) and OAC rule 3745-77-07(C)(1))
2. The application and enforcement of the provisions of the New Source Performance Standards (NSPS), as promulgated by the United States Environmental Protection Agency, 40 CFR Part 60, are delegated to the Ohio Environmental Protection Agency. The requirements of 40 CFR Part 60 are also federally enforceable.
- (Authority for term: OAC rule 3745-31-05(A)(3) and OAC rule 3745-77-07(C)(1))

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Facility ID: 1667040085 Emissions Unit ID: B008 Issuance type: Title V Preliminary Proposed 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>
64.18 mmBtu/hr rated heat input natural gas/fuel oil-fired cogeneration gas turbine driving a 5 MW rated power output electrical generator and a heat recovery steam generator	None	None

2. Additional Terms and Conditions

- 1. None

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II. Operational Restrictions

- 1. None

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III. Monitoring and/or Record Keeping Requirements

- 1. None

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IV. Reporting Requirements

- 1. None

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V. Testing Requirements

- 1. None

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VI. Miscellaneous Requirements

- 1. None

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Part III - Terms and Conditions for Emissions Units

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Facility ID: 1667040085 Emissions Unit ID: B009 Issuance type: Title V Preliminary Proposed 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>
76.2 mmBtu/hr natural gas-fired duct burner providing supplemental heat to a heat recovery steam generator	OAC rule 3745-31-05(A)(3)	Visible particulate emissions (PE) shall not exceed 20% opacity, as a six-minute average. 0.010 lb PE/mmBtu heat input 0.10 lb nitrogen oxides (NOx)/mmBtu heat input 0.080 lb carbon monoxide (CO)/mmBtu heat input Only natural gas shall be burned in this emissions unit. The requirements of this rule also include compliance with the requirements of OAC rule 3745-31-05(C), and Part III, Section A.II below. The emission control requirements specified by these rules are less stringent than the emission control requirements established pursuant to OAC rule 3745-31-05(A)(3). See Part III, Section A.I.2.b below. The following annual emissions limits, for B006 through B010 combined, are based upon a rolling, 12-month summation of the monthly emissions, and are restricted by the federally enforceable production limitations of Part III, Section A.II: 87.0 tons/year of CO; 99.0 tons/year of NOx; 9.5 tons/year of PE; and 99.0 tons/year of SO2. Exempt from the emission standards of this rule since only natural gas is burned.
	OAC rule 3745-17-07(A) OAC rule 3745-17-10(B) OAC rule 3745-18-06(A) OAC rule 3745-21-08(B) OAC 3745-23-06(B) OAC rule 3745-31-05(C)	
	40 CFR Part 60, Subpart Dc	

2. Additional Terms and Conditions

- a. The mass emission limitations for PE, NOx, and CO established pursuant to OAC rule 3745-31-05(A)(3) are equal to the potential to emit for this emissions unit. Therefore, no additional monitoring, record keeping, or reporting requirements are necessary to demonstrate compliance with these emission limitations.
- (a) However, if any proposed change(s), such as with fuel grade, quality, and/or heat content, heat input capacity, equipment changeover, etc., or any other change(s), increase(s) the potential to emit, then the permittee shall apply for and obtain either a modification to the permit to install or a new final permit to install prior to the change(s).
- b. The permittee satisfies the "best available control techniques and operating practices" required pursuant to OAC rule 3745-21-08 by complying with the best available technology requirements of OAC rule 3745-31-05(A)(3).

On November 5, 2002, OAC rule 3745-21-08 was revised to delete paragraph (B); therefore, paragraph (B) is no longer part of the State regulations. However, that rule revision has not yet been submitted to the U.S. EPA as a revision to Ohio's State Implementation Plan (SIP). Therefore, until the SIP revision occurs and the U.S. EPA approves the revisions to OAC rule 3745-21-08, the requirement to satisfy the "best available control techniques and operating practices" still exists as part of the federally-approved SIP for Ohio.

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II. Operational Restrictions

1. If burned exclusively, with no usage of gas, the maximum annual oil usage for emissions units B006 through B008, combined, shall not exceed 2.627 million gallons based upon a rolling, 12-month summation of the monthly oil usage rates.

- (Authority for term: OAC rule 3745-31-05(A)(3), OAC rule 3745-31-05(C), and OAC rule 3745-77-07(A)(1))
2. If burned exclusively, with no usage of gas, the maximum annual oil usage for emissions unit B008 shall not exceed 0.740 million gallons based upon a rolling, 12-month summation of the monthly oil usage rates.
(Authority for term: OAC rule 3745-31-05(A)(3), OAC rule 3745-31-05(C), and OAC rule 3745-77-07(A)(1))
 3. If burned exclusively, with no usage of oil, the maximum annual gas usage for emissions units B006 through B010, combined, shall not exceed 1414 million cubic feet based upon a rolling, 12-month summation of the monthly gas usage rates.
(Authority for term: OAC rule 3745-31-05(A)(3), OAC rule 3745-31-05(C), and OAC rule 3745-77-07(A)(1))
 4. If oil is substituted for gas in emissions units B006 and/or B007, then the annual limit of 1414 million cubic feet of natural gas shall be reduced by 71.5 cubic feet for each gallon of oil burned.
(Authority for term: OAC rule 3745-31-05(A)(3), OAC rule 3745-31-05(C), and OAC rule 3745-77-07(A)(1))
 5. If oil is substituted for gas in emissions unit B008, then the annual limit of 1414 million cubic feet of natural gas shall be reduced by 540 cubic feet for each gallon of oil burned.
(Authority for term: OAC rule 3745-31-05(A)(3), OAC rule 3745-31-05(C), and OAC rule 3745-77-07(A)(1))

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III. Monitoring and/or Record Keeping Requirements

1. The permittee shall maintain daily records of the volume (cubic feet) and corresponding heat content (Btu per standard cubic foot) and sulfur content (pounds per million standard cubic foot) of natural gas burned in this emissions unit.
(Authority for term: OAC rule 3745-31-05(A)(3) and OAC rule 3745-77-07(C)(1))
2. The permittee shall maintain monthly records of the following information for emissions units B006 through B010, combined:
 - a. the monthly amount of oil burned (gallons);
 - b. the rolling, 12-month amount of oil burned (gallons);
 - c. the monthly amount of gas burned (cubic feet);
 - d. the rolling, 12-month amount of gas burned (cubic feet);
 - e. the monthly emissions (tons) for each of CO, NOx, PE, and SO₂; and
 - f. the rolling, 12-month emission rates (tons) for each CO, NOx, PE, and SO₂.
(Authority for term: OAC rule 3745-31-05(A)(3), OAC rule 3745-31-05(C), and OAC rule 3745-77-07(C)(1))

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IV. Reporting Requirements

1. The permittee shall submit quarterly reports certifying no fuel, except as specified above in Part III, A.I Applicable Emissions Limitations/Control Measures, was burned in this emissions unit during the preceding calendar quarter.
(Authority for term: OAC rule 3745-31-05(A)(3) and OAC rule 3745-77-07(C)(1))
2. In accordance with 40 CFR 60.48c, the permittee shall submit notification of the date of construction, anticipated startup, and actual startup, as provided by paragraph 60.7 of this part. The notification shall include the design heat input capacity of this steam generating unit and identification of the fuels to be combusted in the subject unit.
(Authority for term: OAC rule 3745-31-05(A)(3) and OAC rule 3745-77-07(C)(1))
3. The permittee shall submit quarterly deviation (excursion) reports that identify all exceedances of the rolling, 12-month fuel usage rates, each for oil and gas, as specified in Part III, A.II Operational Restrictions, as well as the corrective actions that were taken to achieve compliance.
(Authority for term: OAC rule 3745-31-05(A)(3) and OAC rule 3745-77-07(C)(1))
4. The permittee shall submit quarterly deviation (excursion) reports that identify all exceedances of the rolling, 12-month emission rates, for CO, NOx, PE, and SO₂, for emissions units B006 through B010, combined, as well as the corrective actions that were taken to achieve compliance.
(Authority for term: OAC rule 3745-31-05(A)(3) and OAC rule 3745-77-07(C)(1))
5. Unless specified otherwise, all above quarterly deviation reports shall be submitted in accordance with the deadlines and other requirements specified in Part I - General Term and Condition 2 of this permit.

(Authority for term: OAC rule 3745-31-05(A)(3) and OAC rule 3745-77-07(C)(1))

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V. **Testing Requirements**

1. Compliance with the emission limitations of OAC rule 3745-31-05(A)(3) in Part III, Section A.I.1 of these terms and conditions shall be demonstrated in accordance with the following methods, assuming a heat content of 1000 Btu/cubic foot of gas:
 - a. Emission Limitation: Visible PE shall not exceed 20% opacity, as a six-minute average.

Applicable Compliance Method: Compliance with the visible PE shall be demonstrated in accordance with Method 9 of 40 CFR Part 60, Appendix A.

(Authority for term: OAC rule 3745-77-07(C)(1) and OAC rule 3745-17-03(B)(1))
 - b. Emission Limitation: 0.010 lb PE/mmBtu heat input

Applicable Compliance Method: The potential to emit is equal to the above emission limitation, as demonstrated below:

 $E = 0.010 \text{ lb PE/mmBtu heat input [manufacturer's potential to emit test data];}$

If required, the permittee shall demonstrate compliance based on the results of emission testing conducted in accordance with 40 CFR Part 60, Appendix A, Methods 1 - 5.

(Authority for term: OAC rule 3745-17-03(B)(9), OAC rule 3745-31-05(A)(3) and OAC rule 3745-77-07(C)(1))
 - c. Emission Limitations: 0.10 lb NOx/mmBtu heat input

Applicable Compliance Method: The potential to emit is equal to the above emission limitation, as demonstrated below:

 $E = 0.10 \text{ lb NOx/mmBtu heat input [manufacturer's potential to emit test data];}$

If required, the permittee shall demonstrate compliance based on the results of emission testing conducted in accordance with 40 CFR Part 60, Appendix A, Methods 1 - 4 and 7E.

(Authority for term: OAC rule 3745-31-05(A)(3) and OAC rule 3745-77-07(C)(1))
 - d. Emission Limitation: 0.080 lb CO/mmBtu heat input

Applicable Compliance Method: The potential to emit is equal to the above emission limitation, as demonstrated below:

 $E = 0.080 \text{ lb CO/mmBtu heat input [manufacturer's potential to emit test data];}$

If required, the permittee shall demonstrate compliance based on the results of emission testing conducted in accordance with 40 CFR Part 60, Appendix A, Methods 1 - 4 and 10.

(Authority for term: OAC rule 3745-31-05(A)(3) and OAC rule 3745-77-07(C)(1))
2. Compliance with the annual CO, NOx, PE, and SO₂ emission limitations of OAC rule 3745-31-05 (C) in Part III, Section A.I.1 of these terms and conditions shall be demonstrated in accordance with the emissions determination, as required in the record keeping section of Part III, Section A.III.2 above, using the synthetic minor potential to emit strategy contained in the "Permit to Install Application Supporting Documentation" prepared 10/21/03 by David Marczyly, Environmental Design Group, 450 Grant Street, Akron, Ohio 44311, included in the application.

(Authority for term: OAC rule 3745-31-05(A)(3) and OAC rule 3745-77-07(C)(1))

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VI. **Miscellaneous Requirements**

1. Modeling to demonstrate compliance with the Ohio EPA's "Air Toxic Policy" was not necessary because the emissions unit's maximum annual emissions for each toxic compound will be less than 1.0 ton. OAC Chapter 3745-31 requires permittees to apply for and obtain a new or modified permit to install prior to making a "modification" as defined by OAC rule 3745-31-01. The permittee is hereby advised that changes in the composition of the materials, or use of new materials, that would cause the emissions of any pollutant that has a listed TLV to increase above 1.0 ton per year may require the permittee to apply for and obtain a new permit to install.

(Authority for term: OAC rule 3745-31-05(A)(3) and OAC rule 3745-77-07(C)(1))
2. The application and enforcement of the provisions of the New Source Performance Standards (NSPS), as promulgated by the United States Environmental Protection Agency, 40 CFR Part 60, are delegated to the

Ohio Environmental Protection Agency. The requirements of 40 CFR Part 60 are also federally enforceable.

(Authority for term: OAC rule 3745-31-05(A)(3) and OAC rule 3745-77-07(C)(1))

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Facility ID: 1667040085 Emissions Unit ID: B009 Issuance type: Title V Preliminary Proposed 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>
76.2 mmBtu/hr natural gas-fired duct burner providing supplemental heat to a heat recovery steam generator	None	None

2. Additional Terms and Conditions

- 1. None

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II. Operational Restrictions

- 1. None

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III. Monitoring and/or Record Keeping Requirements

- 1. None

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IV. Reporting Requirements

- 1. None

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V. Testing Requirements

- 1. None

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VI. Miscellaneous Requirements

- 1. None

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Facility ID: 1667040085 Emissions Unit ID: B010 Issuance type: Title V Preliminary Proposed 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>
76.0 mmBtu/hr rated heat input natural gas-fired cogeneration gas turbine driving a 7 MW rated power output electrical generator and a heat recovery steam generator	OAC rule 3745-31-05(A)(3)	Visible particulate emissions (PE) shall not exceed 20% opacity, as a six-minute average. 0.014 lb PE/mmBtu heat input 0.13 lb carbon monoxide (CO)/mmBtu heat input 0.10 lb nitrogen oxides (NOx)/mmBtu heat input (25 ppmvd, mathematically adjusted to 15% oxygen as a diluent).
		Only natural gas shall be burned in this emissions unit.
		The requirements of this rule also include compliance with the requirements of OAC rule 3745-31-05(C), and Part III, Section A.II below.
	40 CFR 60.332 40 CFR 60.333 OAC rule 3745-17-07(A) OAC rule 3745-17-11(B)(4) OAC rule 3745-18-06(A) OAC rule 3745-21-08(B) OAC 3745-23-06(B) 40 CFR Part 75	The emission control requirements specified by these rules are less stringent than the emission control requirements established pursuant to OAC rule 3745-31-05(A)(3).
		Part III, Section A.I.2.b below.
		Part III, Section A.I.2.c below.
	OAC rule 3745-103 OAC rule 3745-31-05(C)	The following annual emissions limits, for B006 through B010 combined, are based upon a rolling, 12-month summation of the monthly emissions, and are restricted by the federally enforceable production limitations of Part III, Section A.II: 87.0 tons/year of CO; 99.0 tons/year of NOx; 9.5 tons/year of PE; and 99.0 tons/year of SO2.

2. Additional Terms and Conditions

- a. The mass emission limitations for PE, NOx, and CO established pursuant to OAC rule 3745-31-05(A)(3) are equal to or greater than the potential to emit for this emissions unit. Therefore, no additional monitoring, record keeping, or reporting requirements are necessary to demonstrate compliance with these emission limitations.

- (a) However, if any proposed change(s), such as with fuel grade, quality, and/or heat content, heat input capacity, equipment changeover, etc., or any other change(s), increase(s) the potential to emit, then the permittee shall apply for and obtain either a modification to the permit to install or a new final permit to install prior to the change(s).

- b. The permittee satisfies the "best available control techniques and operating practices" required pursuant to OAC rule 3745-21-08 by complying with the best available technology requirements of OAC rule 3745-31-05(A)(3).

On November 5, 2002, OAC rule 3745-21-08 was revised to delete paragraph (B); therefore, paragraph (B) is no longer part of the State regulations. However, that rule revision has not yet been submitted to the U.S. EPA as a revision to Ohio's State Implementation Plan (SIP). Therefore, until the SIP revision occurs and the U.S. EPA approves the revisions to OAC rule 3745-21-08, the requirement to satisfy the "best available control techniques and operating practices" still exists as part of the federally-approved SIP for Ohio.

- c. If the permittee is subject to the requirements of 40 CFR Part 72 and 75 concerning acid rain, the permittee shall ensure that any affected emissions unit complies with those requirements. Emissions exceeding any allowances that are lawfully held under Title IV of the Act, or any regulations adopted thereunder, are prohibited.

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II. Operational Restrictions

1. No fuels, other than natural gas, shall be burned in this emissions unit.
(Authority for term: OAC rule 3745-31-05(A)(3) and OAC rule 3745-77-07(A)(1))
2. If burned exclusively, with no usage of gas, the maximum annual oil usage for emissions units B006 through B008, combined, shall not exceed 2.627 million gallons based upon a rolling, 12-month summation of the monthly oil usage rates.
(Authority for term: OAC rule 3745-31-05(A)(3), OAC rule 3745-31-05(C), and OAC rule 3745-77-07(A)(1))
3. If burned exclusively, with no usage of gas, the maximum annual oil usage for emissions unit B008 shall not exceed 0.740 million gallons based upon a rolling, 12-month summation of the monthly oil usage rates.
(Authority for term: OAC rule 3745-31-05(A)(3), OAC rule 3745-31-05(C), and OAC rule 3745-77-07(A)(1))
4. If burned exclusively, with no usage of oil, the maximum annual gas usage for emissions units B006 through B010, combined, shall not exceed 1414 million cubic feet based upon a rolling, 12-month summation of the monthly gas usage rates.
(Authority for term: OAC rule 3745-31-05(A)(3), OAC rule 3745-31-05(C), and OAC rule 3745-77-07(A)(1))
5. If oil is substituted for gas in emissions units B006 and/or B007, then the annual limit of 1414 million cubic feet of natural gas shall be reduced by 71.5 cubic feet for each gallon of oil burned.
(Authority for term: OAC rule 3745-31-05(A)(3), OAC rule 3745-31-05(C), and OAC rule 3745-77-07(A)(1))
6. If oil is substituted for gas in emissions unit B008, then the annual limit of 1414 million cubic feet of natural gas shall be reduced by 540 cubic feet for each gallon of oil burned.
(Authority for term: OAC rule 3745-31-05(A)(3), OAC rule 3745-31-05(C), and OAC rule 3745-77-07(A)(1))

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III. Monitoring and/or Record Keeping Requirements

1. The permittee shall maintain monthly records of the following information for emissions units B006 through B010, combined:
 - a. the monthly amount of oil burned (gallons);
 - b. the rolling, 12-month amount of oil burned (gallons);
 - c. the monthly amount of gas burned (cubic feet);
 - d. the rolling, 12-month amount of gas burned (cubic feet);
 - e. the monthly emissions (tons) for each of CO, NOx, PE, and SO2; and
 - f. the rolling, 12-month emission rates (tons) for each CO, NOx, PE, and SO2.
(Authority for term: OAC rule 3745-31-05(A)(3), OAC rule 3745-31-05(C), and OAC rule 3745-77-07(C)(1))

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IV. Reporting Requirements

1. The permittee shall submit quarterly reports certifying no fuel, except natural gas, was burned in this emissions unit during the preceding calendar quarter.
(Authority for term: OAC rule 3745-31-05(A)(3) and OAC rule 3745-77-07(C)(1))
2. The permittee shall submit quarterly deviation (excursion) reports that identify all exceedances of the rolling, 12-month fuel usage rates, each for oil and gas, as specified in Part III, A.II Operational Restrictions, as well as the corrective actions that were taken to achieve compliance.
(Authority for term: OAC rule 3745-31-05(A)(3) and OAC rule 3745-77-07(C)(1))
3. The permittee shall submit quarterly deviation (excursion) reports that identify all exceedances of the rolling, 12-month emission rates, for CO, NOx, PE, and SO2, for emissions units B006 through B010, combined, as well as the corrective actions that were taken to achieve compliance.

(Authority for term: OAC rule 3745-31-05(A)(3) and OAC rule 3745-77-07(C)(1))

4. Unless specified otherwise, all above quarterly deviation reports shall be submitted in accordance with the deadlines and other requirements specified in Part I - General Term and Condition 2 of this permit.

(Authority for term: OAC rule 3745-31-05(A)(3) and OAC rule 3745-77-07(C)(1))

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V. **Testing Requirements**

1. Compliance with the emission limitations of OAC rule 3745-31-05(A)(3) in Part III, Section A.1.1 of these terms and conditions shall be demonstrated in accordance with the following methods, assuming heat contents of 137,000 Btu/gallon of oil & 1000 Btu/cubic foot of gas:

- a. Emission Limitation: Visible PE shall not exceed 20% opacity, as a six-minute average.

Applicable Compliance Method: Compliance with the visible PE shall be demonstrated in accordance with Method 9 of 40 CFR Part 60, Appendix A.

(Authority for term: OAC rule 3745-77-07(C)(1) and OAC rule 3745-17-03(B)(1))

- b. Emission Limitation: 0.014 lb PE/mmBtu heat input

Applicable Compliance Method: The potential to emit is equal to the above emissions limitation, as demonstrated below:

$E = 0.014 \text{ lb PE/mmBtu heat input}$ [potential emissions per AP-42, 9/98, Table 3.1-1].

If required, the permittee shall demonstrate compliance based on the results of emission testing conducted in accordance with 40 CFR Part 60, Appendix A, Methods 1 - 5.

(Authority for term: OAC rule 3745-17-03(B)(9), OAC rule 3745-31-05(A)(3) and OAC rule 3745-77-07(C)(1))

- c. Emission Limitations: 0.10 lb NOx/mmBtu heat input

Applicable Compliance Method: The potential to emit is equal to the above emission limitation, as demonstrated below:

$E = 0.10 \text{ lb NOx/mmBtu heat input}$ [potential emissions per manufacturer's specifications].

If required, the permittee shall demonstrate compliance based on the results of emission testing conducted in accordance with 40 CFR Part 60, Appendix A, Methods 1 - 4 and 7E.

(Authority for term: OAC rule 3745-31-05(A)(3) and OAC rule 3745-77-07(C)(1))

- d. Emission Limitation: 0.13 lb CO/mmBtu heat input

Applicable Compliance Method: The potential to emit is less than the above emission limitation, as demonstrated below:

$E = 0.122 \text{ lb CO/mmBtu heat input}$ [potential emissions per manufacturer's specifications];

If required, the permittee shall demonstrate compliance based on the results of emission testing conducted in accordance with 40 CFR Part 60, Appendix A, Methods 1 - 4 and 10.

(Authority for term: OAC rule 3745-31-05(A)(3) and OAC rule 3745-77-07(C)(1))

2. Compliance with the fuel sulfur content and nitrogen content restrictions of this permit shall be determined by any qualified person as follows:

- a. sulfur content: ASTM D 2880-71 shall be used for liquid fuels, and ASTM D 1072-80, D 3031-81, D 4084-82, or D 3246-81 shall be used for gaseous fuels. The applicable ranges of some ASTM methods mentioned above are not adequate to measure the levels of sulfur in some fuel gases. Dilution of samples before analysis (with verification of the dilution ratio) may be used, subject to the approval of the Administrator.
- b. nitrogen content: analytical methods and procedures shall be used for the fuel burned that are accurate to within 5% and are approved by the Administrator.

(Authority for term: OAC rule 3745-31-05(A)(3) and OAC rule 3745-77-07(C)(1))

3. Compliance with the annual CO, NOx, PE, and SO2 emission limitations of OAC rule 3745-31-05 (C) in Part III, Section A.1.1 of these terms and conditions shall be demonstrated in accordance with the emissions determination, as required in the record keeping section of Part III, Section A.III.2 above, using the synthetic minor potential to emit strategy contained in the "Permit to Install Application Supporting Documentation" prepared 10/21/03 by David Marczylo, Environmental Design Group, 450 Grant Street, Akron, Ohio 44311, included in the application.

(Authority for term: OAC rule 3745-31-05(A)(3) and OAC rule 3745-77-07(C)(1))

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VI. Miscellaneous Requirements

1. Modeling to demonstrate compliance with the Ohio EPA's "Air Toxic Policy" was not necessary because the emissions unit's maximum annual emissions for each toxic compound will be less than 1.0 ton. OAC Chapter 3745-31 requires permittees to apply for and obtain a new or modified permit to install prior to making a "modification" as defined by OAC rule 3745-31-01. The permittee is hereby advised that changes in the composition of the materials, or use of new materials, that would cause the emissions of any pollutant that has a listed TLV to increase above 1.0 ton per year may require the permittee to apply for and obtain a new permit to install.

In addition, for this new emissions unit other air dispersion modeling requirements pursuant to OEPA's Engineering Guide number 69 are exempt because it has been determined that the shut down of existing coal fired boilers and other emissions units at the facility are considered to be an environmentally beneficial project per discussions with Ohio EPA air dispersion modeling staff.

(Authority for term: OAC rule 3745-31-05(A)(3) and OAC rule 3745-77-07(C)(1))

2. The application and enforcement of the provisions of the New Source Performance Standards (NSPS), as promulgated by the United States Environmental Protection Agency, 40 CFR Part 60, are delegated to the Ohio Environmental Protection Agency. The requirements of 40 CFR Part 60 are also federally enforceable.

(Authority for term: OAC rule 3745-31-05(A)(3) and OAC rule 3745-77-07(C)(1))

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Facility ID: 1667040085 Emissions Unit ID: B010 Issuance type: Title V Preliminary Proposed 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>
76.0 mmBtu/hr rated heat input natural gas-fired cogeneration gas turbine driving a 7 MW rated power output electrical generator and a heat recovery steam generator	None	None

2. Additional Terms and Conditions

1. None

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II. Operational Restrictions

1. None

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III. Monitoring and/or Record Keeping Requirements

1. None

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IV. **Reporting Requirements**

1. None

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V. **Testing Requirements**

1. None

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VI. **Miscellaneous Requirements**

1. None