

Facility ID: 0125042608 Issuance type: Title V Final 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. None

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### b State Only Enforceable Section

- a. The following insignificant emissions units are located at this facility:

1.
  - B001 - 151902, 5.6 mmBtu/hr, natural gas boiler
  - B002 - 151901, 5.6 mmBtu/hr, natural gas boiler
  - B011 - 141793, 6.2 mmBtu/hr, natural gas boiler
  - B012 - 141793, 6.2 mmBtu/hr, natural gas boiler
  - B013 - 141791, 6.2 mmBtu/hr, natural gas boiler
  - B025 - 146194, 5.1 mmBtu/hr, natural gas boiler
  - B026 - 118933, 6.8 mmBtu/hr, natural gas boiler
  - B027 - 118932, 6.8 mmBtu/hr, natural gas boiler
  - B029 - 131512, 5.2 mmBtu/hr, natural gas boiler
  - B030 - 131511, 5.2 mmBtu/hr, natural gas boiler
  - B035 - 151910, 4.0 mmBtu/hr, natural gas boiler
  - B036 - 151909, 4.0 mmBtu/hr, natural gas boiler
  - B039 - 146182, 8.4 mmBtu/hr, natural gas boiler
  - B040 - 146181, 8.4 mmBtu/hr, natural gas boiler
  - B041 - 138350, 4.1 mmBtu/hr, natural gas boiler
  - B042 - 131538, 4.1 mmBtu/hr, natural gas boiler
  - B043 - 122185, 4.2 mmBtu/hr, natural gas boiler
  - B044 - 122184, 5.9 mmBtu/hr, natural gas boiler
  - B045 - 122183, 5.9 mmBtu/hr, natural gas boiler
  - B046 - 122182, 5.9 mmBtu/hr, natural gas boiler
  - B047 - 122181, 5.9 mmBtu/hr, natural gas boiler
  - B048 - 146158, 4.0 mmBtu/hr, natural gas boiler
  - B049 - 146157, 4.0 mmBtu/hr, natural gas boiler
  - B050 - 146156, 4.0 mmBtu/hr, natural gas boiler
  - B051 - 146155, 4.0 mmBtu/hr, natural gas boiler
  - B052 - 146154, 4.0 mmBtu/hr, natural gas boiler
  - B054 - 146152, 4.0 mmBtu/hr, natural gas boiler
  - B056 - 146192, 5.1 mmBtu/hr, natural gas boiler
  - B057 - 146191, 5.1 mmBtu/hr, natural gas boiler
  - B064 - 140493, 4.3 mmBtu/hr, natural gas boiler
  - B065 - 140492, 4.3 mmBtu/hr, natural gas boiler
- b.
  - B066 - 140491, 4.3 mmBtu/hr, natural gas boiler
  - B074 - 135641, 6.7 mmBtu/hr, natural gas boiler
  - B076 - 151917, 1.5 mmBtu/hr, natural gas boiler
  - B079 - 151914, 7.5 mmBtu/hr, natural gas boiler
  - B080 - 135635, 4.3 mmBtu/hr, natural gas boiler
  - B081 - 135634, 4.3 mmBtu/hr, natural gas boiler
  - B082 - 135633, 4.3 mmBtu/hr, natural gas boiler
  - B083 - 135632, 4.2 mmBtu/hr, natural gas boiler
  - B084 - 135631, 4.2 mmBtu/hr, natural gas boiler
  - B085 - 133469, 4.1 mmBtu/hr, natural gas boiler
  - B086 - 134815, 4.1 mmBtu/hr, natural gas boiler
  - B087 - 134814, 4.1 mmBtu/hr, natural gas boiler
  - B088 - 140496, 3.1 mmBtu/hr, natural gas boiler
  - B089 - 140497, 3.1 mmBtu/hr, natural gas boiler
  - B090 - 135646, 6.2 mmBtu/hr, natural gas boiler
  - B091 - 135645, 6.2 mmBtu/hr, natural gas boiler

- B092 - 135644, 4.1 mmBtu/hr, natural gas boiler  
 B093 - 123422, 4.4 mmBtu/hr, natural gas boiler  
 B094 - 123423, 4.4 mmBtu/hr, natural gas boiler  
 B095 - 114902, 4.4 mmBtu/hr, natural gas boiler  
 B096 - 130477, 4.4 mmBtu/hr, natural gas boiler  
 B097 - 123421, 4.4 mmBtu/hr, natural gas boiler  
 B098 - 123605, 4.2 mmBtu/hr, natural gas boiler  
 B099 - 123604, 4.2 mmBtu/hr, natural gas boiler  
 B100 - 123603, 4.2 mmBtu/hr, natural gas boiler  
 B112 - 138363, 5.2 mmBtu/hr, natural gas boiler  
 B113 - 138634, 5.2 mmBtu/hr, natural gas boiler  
 B130 - 6-171498, 4.2 mmBtu/hr, natural gas boiler
- c. G002 - 8G-GDF, gasoline dispensing facility  
 G003 - 9G-GDF, gasoline dispensing facility  
 G006 - 16G, gasoline dispensing facility  
 G007 - 18G, gasoline dispensing facility  
 G008 - 19G, gasoline dispensing facility  
 G009 - 20G, gasoline dispensing facility  
 P903 - McCracken DG, diesel generator  
 T001 - McCracken oil tank no. 1, no. 2 fuel oil, 50,000 gallons  
 T002 - McCracken oil tank no. 2, no. 2 fuel oil, 50,000 gallons  
 T003 - McCracken oil tank no. 3, no. 2 fuel oil, 50,000 gallons  
 T004 - McCracken oil tank no. 4, no. 2 fuel oil, 50,000 gallons  
 T005 - McCracken oil tank no. 5, no. 2 fuel oil, 50,000 gallons  
 T006 - McCracken oil tank no. 6, no. 2 fuel oil, 40,000 gallons  
 T007 - McCracken oil tank no. 7, no. 2 fuel oil, 40,000 gallons  
 T008 - McCracken oil tank no. 8, no. 2 fuel oil, 40,000 gallons  
 T009 - McCracken oil tank no. 9, no. 2 fuel oil, 40,000 gallons
- d. T010 - McCracken oil tank no. 10, no. 2 fuel oil, 40,000 gallons  
 T011 - McCracken oil tank no. 11, no. 2 fuel oil, 30,000 gallons  
 T012 - McCracken oil tank no. 12, no. 2 fuel oil, 30,000 gallons  
 Z004 - Allied Medical EG, emergency generator  
 Z005 - McPherson Lab EG, emergency generator  
 Z006 - Starling/Loving, emergency generator  
 Z008 - Wisemen EG, emergency generator  
 Z009 - Lazenby EG, emergency generator  
 Z010 - Comprehensive Cancer EG, emergency generator  
 Z011 - Schottentstein EG, emergency generator  
 Z012 - Bioscience 2, emergency generator  
 Z013 - Bioscience 3, emergency generator  
 Z021 - Graves Hall EG, emergency generator  
 Z027 - Hamilton Hall EG, emergency generator  
 Z028 - Postlehall EG, emergency generator  
 Z029 - prior health/science EG, emergency generator  
 Z032 - Dodd Hall/Davis, emergency generator  
 Z033 - Mershon Center EG, emergency generator  
 Z034 - Rightmirehall SE, emergency generator  
 Z035 - Rightmirehall PH, emergency generator  
 Z036 - Rightmirehall NE, emergency generator  
 Z037 - Animal EG 1, emergency generator  
 Z038 - Animal EG 2, emergency generator  
 Z039 - Animal EG 3, emergency generator  
 Z040 - Goss EG, emergency generator  
 Z041 - Byrd Research EG, emergency generator  
 Z042 - Scott Hall EG 1, emergency generator  
 Z043 - Scott Hall EG 2, emergency generator  
 Z044 - Blankenship EG, emergency generator  
 Z045 - St. Johns EG, emergency generator  
 Z046 - Fisher Hall, emergency generator  
 Z047 - Lincoln EG, emergency generator  
 Z048 - Fawcett EG, emergency generator  
 Z049 - McCampbell 2, emergency generator  
 Z050 - Raney Commons EG, emergency generator  
 Z051 - North Commons EG, emergency generator
- e. Z054 - Newton Hall, 6.5 mmBtu/hr, natural gas boiler  
 Z055 - ice rink, emergency generator  
 Z056 - Hitchcock Hall, emergency generator  
 Z069 - Scott House 1, 8.37 mmBtu/hr, natural gas boiler  
 Z070 - Scott House 2, 8.37 mmBtu/hr, natural gas boiler  
 Z071 - Scott House 3, 8.37 mmBtu/hr, natural gas boiler  
 Z101 - 047/outside, EG1, emergency generator  
 Z102 - 054/407B, EG2, emergency generator  
 Z103 - 055/12M, EG3, emergency generator  
 Z105 - 078/main shop area, EG4, emergency generator  
 Z107 - 080/043M, EG5, emergency generator  
 Z116 - 094/bldg, EG10, emergency generator  
 Z117 - 094/bldg, EG11, emergency generator  
 Z122 - Neuropsychiatric facility, EG15, emergency generator  
 Z128 - Neuropsychiatric facility, UST3, storage tank

- f. Z142 - Drackett EG, emergency generator  
 Z143 - Riffle UST, storage tank  
 Z144 - Riffle EG, emergency generator  
 Z145 - Jones EG, emergency generator  
 Z146 - Jones B1, 5.0 mmBtu/hr, natural gas boiler  
 Z147 - Jones B2, 5.0 mmBtu/hr, natural gas boiler  
 Z148 - Taylor EG, emergency generator  
 Z149 - Morrill EG, emergency generator  
 Z153 - Graves EG, emergency generator  
 Z154 - Dreesse EG, emergency generator  
 Z155 - Fawcett Center, printing press  
 Z161 - bldg290-5, printing press  
 Z162 - bldg290-6, printing press  
 Z165 - bldg290-9, printing press  
 Z166 - bldg290-10, printing press  
 Z167 - bldg290-11, printing press  
 Z168 - bldg290-12, printing press  
 Z169 - bldg290-13, printing press  
 Z170 - bldg290-14, printing press  
 Z171 - bldg290-15, printing press  
 Z172 - bldg290-16, printing press  
 Z173 - DrakePwCv, emergency generator  
 Z174 - HHGreen EG, emergency generator  
 Z175 - AgEng EG, emergency generator  
 Z176 - VetETO1, ETO sterilizer  
 Z177 - VetETO2, ETO sterilizer  
 Z178 - VetEG, emergency generator  
 Z179 - UnHospEG, emergency generator  
 Z180 - Rightmire EG, emergency generator  
 Z183 - Rhodes EG, emergency generator  
 Z186 - Rhodes UST, storage tank  
 Z188 - Kinnear EG1, emergency generator  
 Z189 - Kinnear EG2, emergency generator  
 Z191 - Celeste EG, emergency generator  
 Z195 - Biotech B, 5.23 mmBtu/hr, natural gas boiler
- g. Z196 - 1275 Kinnear B1, 5.8 mmBtu/hr, natural gas boiler  
 Z197 - 1275 Kinnear B2, 5.8 mmBtu/hr, natural gas boiler  
 Z201 - Neuman EG, emergency generator  
 Z202 - 16Ga, gasoline dispensing facility  
 Z205 - MathTower EG, emergency generator  
 Z207 - MedRes EG, emergency generator  
 Z212 - James EG 1, emergency generator  
 Z213 - James EG 2, emergency generator  
 Z214 - OSUHospUST, storage tank  
 Z215 - gen #1, emergency generator  
 Z216 - gen #2, emergency generator  
 Z220 - McCracken truck traffic/coal handling plant roadway  
 Z221 - sawdust collection  
 Z505 - 65 Hamilton Hall, storage tank  
 Z506 - 75 Hospital, storage tank  
 Z507 - 76 Dodd/Davis Hall, storage tank  
 Z513 - 02 maintenance bldg, storage tank  
 Z514 - 48 Mershon Auditorium, storage tank  
 Z518 - 26 service bldg annex, storage tank  
 Z519 - 27 service bldg annex, storage tank  
 Z520 - 62 Sisson Hall, storage tank  
 Z524 - 89 Telecommunications bldg, storage tank

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

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**Part III - Terms and Conditions for Emissions Units**

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Facility ID: 0125042608 Emissions Unit ID: B104 Issuance type: Title V Final 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>
10.4 mmBtu/hr natural gas-fired boiler - Boiler #104	OAC rule 3745-17-07(A)	Visible particulate emissions shall not exceed 20% as a 6-minute average, except as provided by rule.
	OAC rule 3745-17-10(B)(1)	Particulate emissions shall not exceed 0.020 pound per mmBtu of actual heat input.

2. **Additional Terms and Conditions**
  - (a) None

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**II. Operational Restrictions**

1. The permittee shall burn only natural gas in this emissions unit.

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

1. For each day during which the permittee burns a fuel other than natural gas, the permittee shall maintain a record of the type and quantity of fuel burned in this emissions unit.

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**IV. Reporting Requirements**

1. The permittee shall submit deviation (excursion) reports that identify each day when a fuel other than natural gas was burned in this emissions unit. Each report shall be submitted within 30 days after the deviation occurs.

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**V. Testing Requirements**

1. Compliance with the emission limitation(s) in Section A.I. of these terms and conditions shall be determined in accordance with the following method(s):
  - a. Emission Limitation:
    - Visible particulate emissions shall not exceed 20% opacity as a 6-minute average, except as provided by rule.
  - Applicable Compliance Method:

If required, compliance shall be determined through visible emissions observations performed in accordance with 40 CFR Part 60, Appendix A, Method 9 and the procedures specified in OAC rule 3745-17-03(B)(1).

- b. Emission Limitation:  
Particulate emissions shall not exceed 0.020 pound per mmBtu of actual heat input.

Applicable Compliance Method:  
Compliance may be determined by multiplying the maximum natural gas burning capacity of the emissions unit (10,400 CF/hr) by the AP-42 (Table 1.4-5, 7/98) emission factor for natural gas combustion (1.9 lbs/mmCF) and dividing by the maximum heat input capacity of the emissions unit (10.4 mmBtu/hr).

If required, the permittee shall demonstrate compliance with this emission limitation through emission tests performed in accordance with 40 CFR Part 60, Appendix A, Methods 1 through 5 and the procedures specified in OAC rule 3745-17-03(B)(9).

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VI. **Miscellaneous Requirements**

- 1. None

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Facility ID: 0125042608 Emissions Unit ID: B104 Issuance type: Title V Final 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>
2. <b>Additional Terms and Conditions</b>			
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: 0125042608 Emissions Unit ID: B105 Issuance type: Title V Final 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>
10.4 mmBtu/hr natural gas-fired boiler - Boiler #105	OAC rule 3745-17-07(A) OAC rule 3745-17-10(B)(1)	Visible particulate emissions shall not exceed 20% as a 6-minute average, except as provided by rule. Particulate emissions shall not exceed 0.020 pound per mmBtu of actual heat input.

2. **Additional Terms and Conditions**

- (a) None

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II. **Operational Restrictions**

1. The permittee shall burn only natural gas in this emissions unit.

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

1. For each day during which the permittee burns a fuel other than natural gas, the permittee shall maintain a record of the type and quantity of fuel burned in this emissions unit.

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IV. **Reporting Requirements**

1. The permittee shall submit deviation (excursion) reports that identify each day when a fuel other than natural gas was burned in this emissions unit. Each report shall be submitted within 30 days after the deviation occurs.

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V. **Testing Requirements**

1. Compliance with the emission limitation(s) in Section A.I. of these terms and conditions shall be determined in accordance with the following method(s):

- a. Emission Limitation:  
Visible particulate emissions shall not exceed 20% opacity as a 6-minute average, except as provided by rule.

Applicable Compliance Method:  
If required, compliance shall be determined through visible emissions observations performed in accordance with 40 CFR Part 60, Appendix A, Method 9 and the procedures specified in OAC rule 3745-17-03(B)(1).

- b. Emission Limitation:  
Particulate emissions shall not exceed 0.020 pound per mmBtu of actual heat input.

Applicable Compliance Method:  
Compliance may be determined by multiplying the maximum natural gas burning capacity of the emissions unit (10,400 CF/hr) by the AP-42 (Table 1.4-5, 7/98) emission factor for natural gas combustion (1.9 lbs/mmCF) and dividing by the maximum heat input capacity of the emissions unit (10.4 mmBtu/hr).

If required, the permittee shall demonstrate compliance with this emission limitation through emission tests performed in accordance with 40 CFR Part 60, Appendix A, Methods 1 through 5 and the procedures specified in OAC rule 3745-17-03(B)(9).

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VI. **Miscellaneous Requirements**

- 1. None

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Facility ID: 0125042608 Emissions Unit ID: B105 Issuance type: Title V Final 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>
2. <b>Additional Terms and Conditions</b>			
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: 0125042608 Emissions Unit ID: B121 Issuance type: Title V Final 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>
150 mmBtu/hr natural gas, number 2 fuel oil and number 6 fuel oil-fired boiler - Boiler # 6 (PTI 01-645)	OAC rule 3745-31-05(A)(3)	The requirements of this rule also include compliance with the requirements of OAC rules 3745-17-10(B)(1), 3745-17-10(C)(1), and 3745-17-07(A). Particulate emissions shall not exceed 0.020 lb/mmBtu of actual heat input when firing natural gas or number 2 fuel oil. When firing number 2 or number 6 fuel oil, sulfur dioxide emissions shall not exceed 1.6 lbs/mmBtu actual heat input. Visible particulate emissions shall not exceed 20% opacity, as a 6-minute average, except as provided by rule. See A.I.2.a below. See A.II.2 through A.II.5 below.
	OAC rule 3745-17-10(B)(1)	
	OAC rule 3745-18-06(D)	
	OAC rule 3745-17-07(A)	
	OAC rules 3745-21-08(B) and 3745-23-06(B)	
	OAC rule 3745-31-05(D) (PTI 01-645)	
	OAC rule 3745-17-10(C)(1)	Particulate emissions shall not exceed 0.18 lb/mmBtu of actual heat input when firing number 6 fuel oil.

2. **Additional Terms and Conditions**

- a. The design of the emissions unit and the technology associated with the current operating practices will satisfy the "best available control techniques and operating practices" and "latest available control techniques and operating practices" required pursuant to OAC rules 3745-21-08 and 3745-23-06, respectively.

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II. **Operational Restrictions**

- 1. The permittee shall burn only natural gas, number 2 fuel oil or number 6 fuel oil in this emissions unit.
- 2. The annual number 6 fuel oil usage shall not exceed 510,000 gallons per rolling, 12-month period for boilers number 6 and number 7 (emissions units B121 and B122, respectively) combined.

3. The permittee shall not simultaneously fire multiple fuels in this emissions unit during the production of steam.
4. Sulfur dioxide emissions from the combustion of number 6 fuel oil shall not exceed 39.96 tons per year for boilers number 6 and number 7 (emissions units B121 and B122, respectively) combined, as a rolling, 12-month summation.
5. The quality of the number 6 fuel oil burned in this emissions unit shall meet, on an as-received basis, a sulfur content of one (1.0) percent or less. A higher sulfur content for the number 6 fuel oil may be used provided that the usage, in gallons, is reduced to maintain a sulfur dioxide emission rate of less than 39.96 tons per year for boilers number 6 and number 7 (emissions units B121 and B122, respectively) combined, as a rolling, 12-month summation.

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

1. The permittee shall maintain daily records of any time during which this emissions unit simultaneously fired multiple fuels during the production of steam.
2. The permittee shall collect or require the oil supplier to collect a representative grab sample for each shipment of any oil that is received for burning in this emission unit. The permittee shall perform or require the supplier to perform the analyses for sulfur content and heat content in accordance with the following ASTM methods: ASTM method D4294, ASTM method D240, or ASTM method 6010 for sulfur content and ASTM method D240 for heat content. Alternative, equivalent methods may be used upon approval by the Ohio EPA, Central District Office.
3. For each shipment of any oil received for burning in this emissions unit, the permittee shall maintain records of the total quantity of oil received, the permittee's or oil supplier's analyses for sulfur content and heat content, and the calculated sulfur dioxide emission rate (in lbs/mmBtu). (The sulfur dioxide emission rate shall be calculated in accordance with the formula specified in OAC rule 3745-18-04(F).)
4. The permittee shall collect and record the following information on a monthly basis for boilers number 6 and number 7 (emissions units B121 and B122, respectively) combined:
  - a. the amount of number 6 fuel oil burned, in gallons; and
  - b. the rolling, 12-month summation of the amount of number 6 fuel oil burned, in gallons.
5. For each day during which the permittee burns a fuel other than natural gas, number 2 fuel oil, or number 6 fuel oil, the permittee shall maintain a record of the type and quantity of fuel burned in this emissions unit.
6. The permittee shall maintain monthly records of the sulfur dioxide emission rate, when burning number 6 fuel oil, in tons of sulfur dioxide per year as a rolling, 12-month summation, for boilers number 6 and number 7 (emissions units B121 and B122, respectively) combined, calculated in accordance with Section A.V.1.f of this permit.
7. The permittee shall perform daily checks for visible emissions from the stack serving this emissions unit when burning number 6 fuel oil. The presence or absence of any visible emissions shall be noted in an operations log. If visible emissions are observed, the permittee shall also note the following in the operations log:
  - a. the color of the emissions;
  - b. whether the emissions are representative of normal operations;
  - c. if the emissions are not representative of normal operations, the cause of the abnormal emissions;
  - d. the total duration of any abnormal visible emission incident; and
  - e. any corrective actions taken to eliminate the abnormal visible emissions.

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**IV. Reporting Requirements**

1. The permittee shall notify the Director (the Ohio EPA, Central District Office) in writing of any record which shows an exceedance of the lbs of sulfur dioxide/mmBtu emission limitation, based upon the calculated sulfur dioxide emission rates from Section A.III.3. The notification shall include a copy of such record and shall be sent to the Director (the Ohio EPA, Central District Office) within 30 days after the deviation occurs.
2. The permittee shall submit deviation (excursion) reports that identify each day when a fuel other than natural gas, number 2 fuel oil or number 6 fuel oil was burned in this emissions unit. Each report shall be submitted within 30 days after the deviation occurs.
3. The permittee shall notify the Director (the Ohio EPA, Central District Office) in writing of any record which shows a deviation of the number 6 fuel oil usage limitation and/or sulfur dioxide emission limitation for boilers number 6 and number 7 (emissions units B121 and B122, respectively) combined. The notification shall include a copy of such record and shall be sent to the Director (the Ohio EPA, Central District Office) within 30 days after the deviation occurs.
4. The permittee shall submit deviation (excursion) reports that identify any time during which this emissions unit simultaneously fired multiple fuels during the production of steam. These reports shall be submitted within 30 days after the deviation occurs.
5. The permittee shall submit semiannual written reports that (a) identify all days during which abnormal visible particulate emissions were observed from the stack serving this emissions unit when burning number 6 fuel oil and (b) describe any corrective actions taken to eliminate the abnormal visible particulate emissions. These reports shall be submitted to the Director (the Ohio EPA, Central District Office) by January 31 and

July 31 of each year and shall cover the previous 6-month period.

6. The permittee shall notify the Director (the Ohio EPA, Central District Office) in writing of any record which shows an exceedance of the sulfur content limitation specified in Section A.II.5. The notification shall include a copy of such record and shall be sent to the Director (the Ohio EPA, Central District Office) within 30 days after the deviation occurs.

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**V. Testing Requirements**

1. Compliance with the emission limitations in Section A.I. of these terms and conditions shall be determined in accordance with the following methods:
- a. Emission Limitation:  
Visible particulate emissions shall not exceed 20% opacity as a 6-minute average, except as provided by rule.
- Applicable Compliance Method:  
If required, compliance shall be determined through visible emissions observations performed in accordance with 40 CFR Part 60, Appendix A, Method 9 and the procedures specified in OAC rule 3745-17-03(B)(1).
- b. Emission Limitation:  
Particulate emissions shall not exceed 0.020 lb/mmBtu of actual heat input when firing natural gas or number 2 fuel oil.
- Applicable Compliance Method:  
When firing natural gas, compliance with this emission limitation may be demonstrated by multiplying the maximum hourly gas burning capacity of the emissions unit (145,631 CF/hr) by the emission factor from AP-42 "Compilation of Air Pollutant Emission Factors", Table 1.4-2 (7/98) for filterable particulates in natural gas combustion (1.9 lbs of particulates/mmCF), and dividing by the maximum hourly heat input capacity of the emissions unit (150 mmBtu/hr).
- When firing number two fuel oil, compliance with this emission limitation may be demonstrated by multiplying the maximum number 2 fuel oil burning capacity of the emissions unit (1071.5 gal/hr) by the emission factor from AP-42 "Compilation of Air Pollutant Emission Factors", Table 1.3-1 (9/98) for filterable particulates in number 2 fuel oil combustion (2 lbs of particulates/1000 gal), and dividing by the maximum hourly heat input capacity of the emissions unit (150 mmBtu/hr).
- If required, the permittee shall demonstrate compliance with this emission limitation through emission tests performed in accordance with 40 CFR Part 60, Appendix A, Methods 1 through 5 and the procedures specified in OAC rule 3745-17-03(B)(9) while firing number 2 fuel oil.
- c. Emission Limitation:  
Particulate emissions shall not to exceed 0.18 lb/mmBtu of actual heat input when firing number 6 fuel oil.
- Applicable Compliance Method:  
When firing number 6 fuel oil, compliance with this emission limitation may be demonstrated by dividing the maximum number 6 fuel oil burning capacity of the emissions unit (1071.5 gal/hr) by the maximum hourly heat input capacity of the emissions unit (150 mmBtu/hr) and multiplying by the emission factor for sulfur dioxide from the following equation found in AP-42 "Compilation of Air Pollutant Emission Factors", Table 1.3-1 (9/98) for filterable particulates in number 6 fuel oil combustion:
- $$9.19(S) + 3.22 = EF$$
- Where:  
S = sulfur content (%)  
EF = emission factor (lbs PE/1000 gallons)
- If required, the permittee shall demonstrate compliance with this emission limitation through emission tests performed in accordance with 40 CFR Part 60, Appendix A, Methods 1 through 5 and the procedures specified in OAC rule 3745-17-03(B)(9) while firing number 6 fuel oil.
- d. Compliance with the sulfur content limitation specified in Section A.II.5 shall be based on the record keeping in Section A.III.3.
- e. Emission Limitation:  
When firing number 2 or number 6 fuel oil, sulfur dioxide emissions shall not exceed 1.6 lbs/mmBtu actual heat input.
- Applicable Compliance Method:  
Compliance with the allowable sulfur dioxide emission limitation may be demonstrated by documenting that the sulfur content of each shipment of oil received during a calendar month meets the limitation.
- If required, the permittee shall demonstrate compliance with this emission limitation through emission tests performed in accordance with 40 CFR Part 60, Appendix A, Methods 1 through 4 and 6, while firing number 6 fuel oil.

- f. Emission Limitation:  
Sulfur dioxide emissions from number 6 fuel oil shall not exceed 39.96 tons per year for boiler number 6 and number 7 (emissions units B121 and B122, respectively) combined, as a rolling, 12-month summation.

Applicable Compliance Method:  
Compliance shall be determined for sulfur dioxide, from number 6 fuel oil, as provided below:

(the average sulfur dioxide emission rate, for the rolling, 12-month period, in lb/mmBtu, from Section A.III.3) X (the average of the heat content data for the number 6 fuel oil for the rolling, 12-month period, from Section A.III.3, in mmBtu/gallon) X (the updated rolling, 12-month number 6 fuel oil usage rate, in gallons, from Section A.III.4.b)/2000.

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VI. **Miscellaneous Requirements**

- 1. None

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Facility ID: 0125042608 Emissions Unit ID: B121 Issuance type: Title V Final 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>
2. <b>Additional Terms and Conditions</b>			
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: 0125042608 Emissions Unit ID: B122 Issuance type: Title V Final 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>
150 mmBtu/hr natural gas, number 2 fuel oil and number 6 fuel oil-fired boiler - Boiler # 7 (PTI 01-645)	OAC rule 3745-31-05(A)(3)	The requirements of this rule also include compliance with the requirements of OAC rules 3745-17-10(B)(1), 3745-17-10(C)(1), and 3745-17-07(A).
	OAC rule 3745-17-10(B)(1)	Particulate emissions shall not exceed 0.020 lb/mmBtu of actual heat input when firing natural gas or number 2 fuel oil.
	OAC rule 3745-18-06(D)	When firing number 2 or number 6 fuel oil, sulfur dioxide emissions shall not exceed 1.6 lbs/mmBtu actual heat input.
	OAC rule 3745-17-07(A)	Visible particulate emissions shall not exceed 20% opacity, as a 6-minute average, except as provided by rule.
	OAC rules 3745-21-08(B) and 3745-23-06(B)	See A.I.2.a below.
	OAC rule 3745-31-05(D) (PTI 01-645)	See A.II.2 through A.II.5 below.
	OAC rule 3745-17-10(C)(1)	Particulate emissions shall not exceed 0.18 lb/mmBtu of actual heat input when firing number 6 fuel oil.

2. **Additional Terms and Conditions**

- a. The design of the emissions unit and the technology associated with the current operating practices will satisfy the "best available control techniques and operating practices" and "latest available control techniques and operating practices" required pursuant to OAC rules 3745-21-08 and 3745-23-06, respectively.

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II. **Operational Restrictions**

- 1. The permittee shall burn only natural gas, number 2 fuel oil or number 6 fuel oil in this emissions unit.
- 2. The annual number 6 fuel oil usage shall not exceed 510,000 gallons per rolling, 12-month period for boilers number 6 and number 7 (emissions units B121 and B122, respectively) combined.
- 3. The permittee shall not simultaneously fire multiple fuels in this emissions unit during the production of steam.
- 4. Sulfur dioxide emissions from the combustion of number 6 fuel oil shall not exceed 39.96 tons per year for boilers number 6 and number 7 (emissions units B121 and B122, respectively) combined, as a rolling, 12-month summation.

5. The quality of the number 6 fuel oil burned in this emissions unit shall meet, on an as-received basis, a sulfur content of one (1.0) percent or less. A higher sulfur content for the number 6 fuel oil may be used provided that the usage, in gallons, is reduced to maintain a sulfur dioxide emission rate of less than 39.96 tons per year for boilers number 6 and number 7 (emissions units B121 and B122, respectively) combined, as a rolling, 12-month summation.

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

1. The permittee shall maintain daily records of any time during which this emissions unit simultaneously fired multiple fuels during the production of steam.
2. The permittee shall collect or require the oil supplier to collect a representative grab sample for each shipment of any oil that is received for burning in this emission unit. The permittee shall perform or require the supplier to perform the analyses for sulfur content and heat content in accordance with the following ASTM methods: ASTM method D4294, ASTM method D240, or ASTM method 6010 for sulfur content and ASTM method D240 for heat content. Alternative, equivalent methods may be used upon approval by the Ohio EPA, Central District Office.
3. For each shipment of any oil received for burning in this emissions unit, the permittee shall maintain records of the total quantity of oil received, the permittee's or oil supplier's analyses for sulfur content and heat content, and the calculated sulfur dioxide emission rate (in lbs/mmBtu). (The sulfur dioxide emission rate shall be calculated in accordance with the formula specified in OAC rule 3745-18-04(F).)
4. The permittee shall collect and record the following information on a monthly basis for boilers number 6 and number 7 (emissions units B121 and B122, respectively) combined:
  - a. the amount of number 6 fuel oil burned, in gallons; and
  - b. the rolling, 12-month summation of the amount of number 6 fuel oil burned, in gallons.
5. For each day during which the permittee burns a fuel other than natural gas, number 2 fuel oil, or number 6 fuel oil, the permittee shall maintain a record of the type and quantity of fuel burned in this emissions unit.
6. The permittee shall maintain monthly records of the sulfur dioxide emission rate, when burning number 6 fuel oil, in tons of sulfur dioxide per year as a rolling, 12-month summation, for boilers number 6 and number 7 (emissions units B121 and B122, respectively) combined, calculated in accordance with Section A.V.1.f of this permit.
7. The permittee shall perform daily checks for visible emissions from the stack serving this emissions unit when burning number 6 fuel oil. The presence or absence of any visible emissions shall be noted in an operations log. If visible emissions are observed, the permittee shall also note the following in the operations log:
  - a. the color of the emissions;
  - b. whether the emissions are representative of normal operations;
  - c. if the emissions are not representative of normal operations, the cause of the abnormal emissions;
  - d. the total duration of any abnormal visible emission incident; and
  - e. any corrective actions taken to eliminate the abnormal visible emissions.

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### IV. Reporting Requirements

1. The permittee shall notify the Director (the Ohio EPA, Central District Office) in writing of any record which shows an exceedance of the lbs of sulfur dioxide/mmBtu emission limitation, based upon the calculated sulfur dioxide emission rates from Section A.III.3. The notification shall include a copy of such record and shall be sent to the Director (the Ohio EPA, Central District Office) within 30 days after the deviation occurs.
2. The permittee shall submit deviation (excursion) reports that identify each day when a fuel other than natural gas, number 2 fuel oil or number 6 fuel oil was burned in this emissions unit. Each report shall be submitted within 30 days after the deviation occurs.
3. The permittee shall notify the Director (the Ohio EPA, Central District Office) in writing of any record which shows a deviation of the number 6 fuel oil usage limitation and/or sulfur dioxide emission limitation for boilers number 6 and number 7 (emissions units B121 and B122, respectively) combined. The notification shall include a copy of such record and shall be sent to the Director (the Ohio EPA, Central District Office) within 30 days after the deviation occurs.
4. The permittee shall submit deviation (excursion) reports that identify any time during which this emissions unit simultaneously fired multiple fuels during the production of steam. These reports shall be submitted within 30 days after the deviation occurs.
5. The permittee shall submit semiannual written reports that (a) identify all days during which abnormal visible particulate emissions were observed from the stack serving this emissions unit when burning number 6 fuel oil and (b) describe any corrective actions taken to eliminate the abnormal visible particulate emissions. These reports shall be submitted to the Director (the Ohio EPA, Central District Office) by January 31 and July 31 of each year and shall cover the previous 6-month period.
6. The permittee shall notify the Director (the Ohio EPA, Central District Office) in writing of any record which shows an exceedance of the sulfur content limitation specified in Section A.II.5. The notification shall include a copy of such record and shall be sent to the Director (the Ohio EPA, Central District Office) within 30 days after the deviation occurs.

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V. **Testing Requirements**

1. Compliance with the emission limitations in Section A.I. of these terms and conditions shall be determined in accordance with the following methods:
  - a. **Emission Limitation:**  
Visible particulate emissions shall not exceed 20% opacity as a 6-minute average, except as provided by rule.  
  
**Applicable Compliance Method:**  
If required, compliance shall be determined through visible emissions observations performed in accordance with 40 CFR Part 60, Appendix A, Method 9 and the procedures specified in OAC rule 3745-17-03(B)(1).
  - b. **Emission Limitation:**  
Particulate emissions shall not exceed 0.020 lb/mmBtu of actual heat input when firing natural gas or number 2 fuel oil.  
  
**Applicable Compliance Method:**  
When firing natural gas, compliance with this emission limitation may be demonstrated by multiplying the maximum hourly gas burning capacity of the emissions unit (145,631 CF/hr) by the emission factor from AP-42 "Compilation of Air Pollutant Emission Factors", Table 1.4-2 (7/98) for filterable particulates in natural gas combustion (1.9 lbs of particulates/mmCF), and dividing by the maximum hourly heat input capacity of the emissions unit (150 mmBtu/hr).  
  
When firing number two fuel oil, compliance with this emission limitation may be demonstrated by multiplying the maximum number 2 fuel oil burning capacity of the emissions unit (1071.5 gal/hr) by the emission factor from AP-42 "Compilation of Air Pollutant Emission Factors", Table 1.3-1 (9/98) for filterable particulates in number 2 fuel oil combustion (2 lbs of particulates/1000 gal), and dividing by the maximum hourly heat input capacity of the emissions unit (150 mmBtu/hr).  
  
If required, the permittee shall demonstrate compliance with this emission limitation through emission tests performed in accordance with 40 CFR Part 60, Appendix A, Methods 1 through 5 and the procedures specified in OAC rule 3745-17-03(B)(9) while firing number 2 fuel oil.
  - c. **Emission Limitation:**  
Particulate emissions shall not to exceed 0.18 lb/mmBtu of actual heat input when firing number 6 fuel oil.  
  
**Applicable Compliance Method:**  
When firing number 6 fuel oil, compliance with this emission limitation may be demonstrated by dividing the maximum number 6 fuel oil burning capacity of the emissions unit (1071.5 gal/hr) by the maximum hourly heat input capacity of the emissions unit (150 mmBtu/hr) and multiplying by the emission factor for sulfur dioxide from the following equation found in AP-42 "Compilation of Air Pollutant Emission Factors", Table 1.3-1 (9/98) for filterable particulates in number 6 fuel oil combustion:  
  
$$9.19(S) + 3.22 = EF$$
  
  
Where:  
S = sulfur content (%)  
EF = emission factor (lbs PE/1000 gallons)  
  
If required, the permittee shall demonstrate compliance with this emission limitation through emission tests performed in accordance with 40 CFR Part 60, Appendix A, Methods 1 through 5 and the procedures specified in OAC rule 3745-17-03(B)(9) while firing number 6 fuel oil.
  - d. Compliance with the sulfur content limitation specified in Section A.II.5 shall be based on the record keeping in Section A.III.3.
  - e. **Emission Limitation:**  
When firing number 2 or number 6 fuel oil, sulfur dioxide emissions shall not exceed 1.6 lbs/mmBtu actual heat input.  
  
**Applicable Compliance Method:**  
Compliance with the allowable sulfur dioxide emission limitation may be demonstrated by documenting that the sulfur content of each shipment of oil received during a calendar month meets the limitation.  
  
If required, the permittee shall demonstrate compliance with this emission limitation through emission tests performed in accordance with 40 CFR Part 60, Appendix A, Methods 1 through 4 and 6, while firing number 6 fuel oil.
  - f. **Emission Limitation:**  
Sulfur dioxide emissions from number 6 fuel oil shall not exceed 39.96 tons per year for boiler number 6 and number 7 (emissions units B121 and B122, respectively) combined, as a rolling, 12-month summation.

Applicable Compliance Method:

Compliance shall be determined for sulfur dioxide, from number 6 fuel oil, as provided below:

(the average sulfur dioxide emission rate, for the rolling, 12-month period, in lb/mmBtu, from Section A.III.3) X (the average of the heat content data for the number 6 fuel oil for the rolling, 12-month period, from Section A.III.3, in mmBtu/gallon) X (the updated rolling, 12-month number 6 fuel oil usage rate, in gallons, from Section A.III.4.b)/2000.

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VI. **Miscellaneous Requirements**

1. None

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Facility ID: 0125042608 Emissions Unit ID: B122 Issuance type: Title V Final 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>
2. <b>Additional Terms and Conditions</b>			
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: 0125042608 Emissions Unit ID: B124 Issuance type: Title V Final 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>
135 mmBtu/hr natural gas-fired boiler - Boiler #3	OAC rule 3745-17-07(A)	Visible particulate emissions shall not exceed 20% opacity, as a 6-minute average, except as provided by rule.
	OAC rule 3745-17-10(B)(1)	Particulate emissions shall not exceed 0.020 lb/mmBtu of actual heat input.

**2. Additional Terms and Conditions**

- (a) None

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**II. Operational Restrictions**

1. The permittee shall burn only natural gas in this emissions unit.

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

1. For each day during which the permittee burns a fuel other than natural gas the permittee shall maintain a record of the type and quantity of fuel burned in this emissions unit.

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**IV. Reporting Requirements**

1. The permittee shall submit deviation (excursion) reports that identify each day when a fuel other than natural gas was burned in this emissions unit. Each report shall be submitted within 30 days after the deviation occurs.

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**V. Testing Requirements**

1. Compliance with the emission limitations in Section A.I. of these terms and conditions shall be determined in accordance with the following methods:
  - a. Emission Limitation:
 

Visible particulate emissions shall not exceed 20% opacity as a 6-minute average, except as provided by rule.

Applicable Compliance Method:  
If required, compliance shall be determined through visible emissions observations performed in accordance with 40 CFR Part 60, Appendix A, Method 9 and the procedures specified in OAC rule 3745-17-03(B)(1).

- b. Emission Limitation:  
Particulate emissions shall not exceed 0.020 lb/mmBtu actual heat input.

Applicable Compliance Method:

Compliance may be demonstrated by multiplying the maximum hourly gas burning capacity of the emissions unit (131,068 CF/hr) by the emission factor from AP-42 "Compilation of Air Pollutant Emission Factors", Table 1.4-2 (7/98) for filterable particulates in natural gas combustion (1.9 lbs of particulates/mmCF), and dividing by the maximum hourly heat input capacity of the emissions unit (135 mmBtu/hr).

If required, the permittee shall demonstrate compliance with this emission limitation through emission tests performed in accordance with 40 CFR Part 60, Appendix A, Methods 1 through 5 and the procedures specified in OAC rule 3745-17-03(B)(9).

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VI. **Miscellaneous Requirements**

- 1. None

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Facility ID: 0125042608 Emissions Unit ID: B124 Issuance type: Title V Final 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>
2. <b>Additional Terms and Conditions</b>			
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: 0125042608 Emissions Unit ID: B125 Issuance type: Title V Final 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>
150 mmBtu/hr natural gas and number 2 fuel oil-fired boiler - Boiler #1	OAC rule 3745-17-07(A)	Visible particulate emissions shall not exceed 20% opacity, as a 6-minute average, except as provided by rule.
	OAC rule 3745-17-10(B)(1)	Particulate emissions shall not exceed 0.020 lb/mmBtu of actual heat input.
	OAC rule 3745-18-06(D)	When firing number 2 fuel oil, sulfur dioxide emissions shall not exceed 1.6 lbs/mmBtu actual heat input.

2. **Additional Terms and Conditions**

- (a) None

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II. **Operational Restrictions**

- 1. The permittee shall burn only natural gas and/or number 2 fuel oil in this emissions unit.

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

- 1. For each day during which the permittee burns a fuel other than natural gas and/or number 2 fuel oil the permittee shall maintain a record of the type and quantity of fuel burned in this emissions unit.
- 2. The permittee shall collect or require the oil supplier to collect a representative grab sample for each shipment of oil that is received for burning in this emissions unit. The permittee shall perform or require the supplier to perform the analyses for sulfur content and heat content in accordance with the following ASTM methods: ASTM method D4294, ASTM method D240, or ASTM method 6010 for sulfur content; and ASTM method D240 for heat content. Alternative, equivalent methods may be used upon written approval by the Ohio EPA, Central District Office.
- 3. For each shipment of oil received for burning in this emissions unit, the permittee shall maintain records of the total quantity of oil received, the permittee's or oil supplier's analyses for sulfur content and heat content, and the calculated sulfur dioxide emission rate (in lbs/mmBtu). (The sulfur dioxide emission rate shall be calculated in accordance with the formula specified in OAC rule 3745-18-04(F).)

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#### IV. Reporting Requirements

1. The permittee shall submit deviation (excursion) reports that identify each day when a fuel other than natural gas and/or number 2 fuel oil was burned in this emissions unit. Each report shall be submitted within 30 days after the deviation occurs.
2. The permittee shall notify the Director (the Ohio EPA, Central District Office) in writing of any record which shows a deviation of the allowable sulfur dioxide emission limitation based upon the calculated sulfur dioxide emission rates from Section A.III.3. The notification shall include a copy of such record and shall be sent to the Director (the Ohio EPA, Central District Office) within 30 days after the deviation occurs.

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#### V. Testing Requirements

1. Compliance with the emission limitations in Section A.I. of these terms and conditions shall be determined in accordance with the following methods:
  - a. Emission Limitation:  
Visible particulate emissions shall not exceed 20% opacity as a 6-minute average, except as provided by rule.  
  
Applicable Compliance Method:  
If required, compliance shall be determined through visible emissions observations performed in accordance with 40 CFR Part 60, Appendix A, Method 9 and the procedures specified in OAC rule 3745-17-03(B)(1).
  - b. Emission Limitation:  
Particulate emissions shall not exceed 0.020 lb/mmBtu actual heat input.  
  
Applicable Compliance Method:  
When firing natural gas, compliance with this emission limitation may be demonstrated by multiplying the maximum hourly gas burning capacity of the emissions unit (145,631 CF/hr) by the emission factor from AP-42 "Compilation of Air Pollutant Emission Factors", Table 1.4-2 (7/98) for filterable particulates in natural gas combustion (1.9 lbs of particulates/mmCF), and dividing by the maximum hourly heat input capacity of the emissions unit (150 mmBtu/hr).  
  
When firing number 2 fuel oil, compliance with this emission limitation may be demonstrated by multiplying the maximum fuel oil burning capacity of the emissions unit (1087 gal/hr) by the emission factor from AP-42 "Compilation of Air Pollutant Emission Factors", Table 1.3-1 (9/98) for filterable particulates in number 2 fuel oil combustion (2 lbs of particulates/1000 gal), and dividing by the maximum hourly heat input capacity of the emissions unit (150 mmBtu/hr).  
  
If required, the permittee shall demonstrate compliance with this emission limitation through emission tests performed in accordance with 40 CFR Part 60, Appendix A, Methods 1 through 5 and the procedures specified in OAC rule 3745-17-03(B)(9) while firing number 2 fuel oil.
  - c. Emission Limitation:  
Sulfur dioxide emissions shall not exceed 1.6 lbs/mmBtu actual heat input.  
  
Applicable Compliance Method:  
When firing fuel oil, compliance with the allowable sulfur dioxide emission limitation may be demonstrated by documenting that the sulfur content of each shipment of oil received during a calendar month meets the limitation.  
  
If required, the permittee shall demonstrate compliance with this emission limitation through emission tests performed in accordance with 40 CFR Part 60, Appendix A, Methods 1 through 4 and 6, while firing number 2 fuel oil.

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#### VI. Miscellaneous Requirements

1. None

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Facility ID: 0125042608 Emissions Unit ID: B125 Issuance type: Title V Final 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>
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**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: 0125042608 Emissions Unit ID: B131 Issuance type: Title V Final 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>
181 mmBtu/hr coal-fired boiler with auxiliary natural gas-fired burner, controlled with an oxygen analyzer, dry scrubber and baghouse - Boiler #8	OAC rule 3745-31-05(A)(3) (PTI 01-572)	When burning coal, particulate emissions shall not exceed 0.04 lb/mmBtu of actual heat input and 7.24 lbs/hr.  Particulate emissions shall not exceed 24.8 tons/yr.  When burning coal, nitrogen oxides emissions shall not exceed 0.6 lb/mmBtu of actual heat input and 108.6 lbs/hr.  Nitrogen oxides emissions shall not exceed 474.36 tons/yr.  When burning coal, sulfur dioxide emissions shall not exceed 0.87 lb/mmBtu of actual heat input and 157.5 lbs/hr.  Sulfur dioxide emissions shall not exceed 687.83 tons/yr.  When burning coal, carbon monoxide emissions shall not exceed 15.5 lbs/hr.  Carbon monoxide emissions shall not exceed 67.61 tons/yr. The following emission limitations only apply when burning coal:  Lead emissions shall not exceed 0.1 lb/hr and 0.44 ton/yr.  Beryllium emissions shall not exceed 0.015 lb/hr and 0.07 ton/yr.  Mercury (Hg) emissions shall not exceed 0.003 lb/hr and 0.02 ton/yr.  Fluoride emissions shall not exceed 0.004 lb/hr and 0.0182 ton/yr.  Visible particulate emissions shall not exceed 20% opacity, except for a period of not more than 3 minutes in any 60-minute period, but shall not exceed 60% opacity, at any time.  See A.II.1-6 below.  The requirements of this rule also include compliance with the requirements of OAC rule 3745-17-10(B)(1). The emission limitations specified by this rule are less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3). The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3). The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3). See A.I.2.a below.
	OAC rule 3745-17-07(A)	
	OAC rule 3745-18-06(E)	
	OAC rule 3745-17-10(C)(1)	
	OAC rules 3745-21-08(B) and 3745-23-06(B)	
	OAC rule 3745-17-10(B)(1)	Particulate emissions shall not exceed 0.020 lb/mmBtu of actual heat input when burning natural gas.

**2. Additional Terms and Conditions**

a. The permittee has satisfied the "best available control techniques and operating practices" and "latest available control techniques and operating practices" required pursuant to OAC rules 3745-21-08 and 3745-23-06, respectively by committing to comply with the best available technology requirements established pursuant to OAC rule 3745-31-05(A)(3) in Permit to Install 01-572.

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**II. Operational Restrictions**

1. The permittee shall vent emissions to a dry scrubber followed by a baghouse.

2. The permittee shall operate and maintain an oxygen analyzer to assure complete combustion in this emissions unit.
3. The quality of the coal burned in this emissions unit shall meet the following specifications on an "as-received" basis:
  - a. less than 14% ash, by weight;
  - b. a sulfur content which is sufficient to comply with the allowable sulfur dioxide emission limitation of 0.87 pound sulfur dioxide/mmBtu of actual heat input at the scrubber exhaust; and
  - c. greater than 11,700 Btu/pound of coal.

Compliance with the above-mentioned specifications shall be determined based upon the analytical results for the monthly composite sample of coal collected from each shipment of coal received during the calendar month.
4. The annual coal usage shall not exceed 53,000 tons per calendar year.
5. The permittee shall operate and maintain equipment to continuously monitor and record the opacity of the particulate emissions from this emissions unit when the emissions unit is in operation.
6. The permittee shall operate and maintain equipment to continuously monitor and record the sulfur dioxide emission rate in lbs of sulfur dioxide/mmBtu from this emissions unit when the emissions unit is in operation.
7. The pressure drop across the baghouse shall be maintained within the range of 4-8 inches of water while the emissions unit is in operation.
8. The permittee shall burn only natural gas or coal in this emissions unit.
9. The auxiliary natural gas-fired burner shall only be used during periods of boiler start-up, coal handling system malfunctions, boiler shutdown, and when sulfur dioxide emissions are marginal (based upon the data from the continuous sulfur dioxide monitoring system).

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

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

Each monthly composite sample of coal shall be analyzed for ash content (percent), sulfur content (percent), and heat content (Btu/pound of coal). The analytical methods for ash content, sulfur content and heat content shall be: ASTM method D3174, Ash in the Analysis of Coal and Coke; ASTM method D3177, Total Sulfur in the Analysis Sample of Coal and Coke; ASTM method D4239, Sulfur in the Analysis Sample of Coal and Coke Using High Temperature Tube Furnace Combustion Methods; and ASTM method D2015, Gross Calorific Value of Solid Fuel by the Adiabatic Bomb Calorimeter, ASTM method D3286, Gross Calorific Value of Coal and Coke by the Isothermal Bomb Calorimeter, or ASTM method D1989, Standard Test Method for Gross Calorific Value of Coal and Coke by Microprocessor Controlled Isothermal Bomb Calorimeters, respectively. Alternative, equivalent methods may be used upon written approval from the Central District Office.
2. The permittee shall maintain monthly records of the following:
  - a. the total quantity of coal received (tons);
  - b. the total quantity of coal burned (tons);
  - c. the average ash content (percent) of the coal received;
  - d. the average sulfur content (percent) of the coal received;
  - e. the average heat content (Btu/pound) of the coal received;
  - f. the total quantity of natural gas burned (CF); and
  - g. the total operating time for the emissions unit (hrs).
3. The permittee shall maintain annual records of the following:
  - a. the total quantity of coal burned (tons); and
  - b. the total operating time of the emissions unit (hrs).
4. The permittee shall properly operate and maintain equipment to monitor the pressure drop across the baghouse while the emissions unit is in operation. The monitoring equipment shall be installed, calibrated, operated, and maintained in accordance with the manufacturer's recommendations, instructions, and operating manual(s). The permittee shall record the pressure drop across the baghouse on daily basis.
5. For each day during which the permittee burns a fuel other than natural gas and/or coal, the permittee shall maintain a record of the type and quantity of fuel burned in this emissions unit.

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

Each continuous monitoring system consists of all the equipment used to acquire data and includes the sample extraction and transport hardware, sample conditioning hardware, analyzers, and data recording/processing hardware and software.

The permittee shall maintain a certification letter from the Ohio EPA documenting that the continuous opacity monitoring system has been certified in accordance with the requirements of 40 CFR Part 60, Appendix B, Performance Specification 1. The letter of certification shall be made available to the Director upon request.

The permittee shall maintain records of the following data obtained by the continuous opacity monitoring system: percent opacity on a 6-minute block average basis, results of daily zero/span calibration checks and magnitude of manual calibration adjustments.

7. The permittee shall operate and maintain equipment to continuously monitor and record sulfur dioxide emissions from this emissions unit in units of the applicable standard(s). Such continuous monitoring and recording equipment shall comply with the requirements specified in 40 CFR Part 60.

Each continuous monitoring system consists of all the equipment used to acquire data and includes the sample extraction and transport hardware, sample conditioning hardware, analyzers, and data recording/processing hardware and software.

The permittee shall maintain on-site documentation from the USEPA or the Ohio EPA that the continuous sulfur dioxide monitoring system has been certified in accordance with 40 CFR Part 60. The letter of certification shall be made available to the Director upon request.

The permittee shall maintain records of the following data obtained by the continuous sulfur dioxide monitoring system: emissions of sulfur dioxide in lb/mmBtu actual heat input on an hourly average basis, results of daily zero/span calibration checks, and magnitude of manual calibration adjustments. In addition, the permittee shall maintain daily records of the total actual heat input values as determined through the F-Factor and carbon dioxide/oxygen calculations as specified in 40 CFR Part 60, Appendix A, Method 19.

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#### IV. Reporting Requirements

1. The permittee shall submit quarterly deviation (excursion) reports that identify each month during which records were not maintained for the amount of coal burned or the quantity of coal received.
2. The permittee shall submit quarterly deviation (excursion) reports that identify any record showing an exceedance of the coal ash content limitation or the heat content limitation.
3. The permittee shall submit quarterly deviation (excursion) reports that identify any record showing an exceedance of the 0.87 pound sulfur dioxide/mmBtu of actual heat input limitation for the coal received.
4. The permittee shall submit quarterly pressure drop deviation (excursion) reports that identify all periods of time during which the pressure drop across the baghouse did not comply with the allowable range specified above.
5. The quarterly deviation reports shall be submitted in accordance with General Term and Condition A.1.c.ii of this permit.
6. The permittee shall submit annual reports that specify the total amount of coal used and the total particulate, nitrogen oxides, sulfur dioxide, carbon monoxide, lead, beryllium, Hg, and fluoride emissions for this emissions unit for the previous calendar year. These reports shall be submitted by January 31 of each year.
7. The permittee shall submit reports following the end of each calendar quarter to the Ohio EPA, Central District Office documenting all instances of opacity values in excess of the limitations specified above, detailing the date, commencement and completion times, duration, magnitude (percent opacity), reason (if known), and corrective actions taken (if any) of each 6-minute block average above the applicable opacity limitation(s).

The reports shall also identify any continuous opacity monitoring system downtime while the emissions unit was on line (date, time, duration and reason) along with any corrective action(s) taken. The permittee shall provide the emissions unit operating time during the reporting period and the date, time, reason, and corrective action(s) taken for each time period of emissions unit and control equipment malfunctions. The total operating time of the emissions unit and the total operating time of the analyzer while the emissions unit was on line shall be included in the quarterly report.

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

8. The permittee shall submit reports (hardcopy or electronic format) following the end of each calendar quarter to the Ohio EPA, Central District Office documenting the date, commencement and completion time, duration, magnitude, reason (if known), and corrective actions taken (if any), of all 3-hour average sulfur dioxide values in excess of the applicable sulfur dioxide emission rate (lb/mmBtu) and/or of all 1-hour readings which are equal to or greater than the span of the analyzer.

The reports shall also document any continuous sulfur dioxide monitoring system downtime while the

emissions unit was on line (date, time, duration and reason), along with any corrective action(s) taken. The permittee shall provide the emissions unit operating time during the reporting period and the date, time, reason and corrective action(s) taken for each time period of emissions unit and control equipment malfunctions. The total operating time of the emissions unit and the total operating time of the analyzer while the emissions unit was on line shall also be included in the quarterly report.

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

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**V. Testing Requirements**

1. Compliance with the emission limitations in Section A.I. of these terms and conditions shall be determined in accordance with the following methods:
  - a. Emission Limitation:
 

Visible particulate emissions shall not exceed 20% opacity, except for a period of not more than 3 minutes in any 60-minute period, but shall not exceed 60% opacity, at any time.

Applicable Compliance Method:  
Compliance may be based on the data obtained by the continuous opacity monitoring system.

If required, compliance shall be determined through visible emissions observations performed in accordance with 40 CFR Part 60, Appendix A, Method 9.
  - b. Emission Limitations:
 

Particulate emissions shall not exceed 0.04 lb/mmBtu of actual heat input and 7.24 lbs/hr.

Applicable Compliance Method:  
The permittee shall conduct, or have conducted, emission testing for this emissions unit in accordance with the following requirements:
 
    - i. The emission testing shall be conducted within 6 months following issuance of this permit and every 2.5 years thereafter.
    - ii. The emission testing shall be conducted to demonstrate compliance with the particulate emission limitations.
    - iii. The following test methods shall be employed to demonstrate compliance with the allowable mass emission rate(s): 40 CFR Part 60, Appendix A, Methods 1 through 5. Alternative U.S. EPA approved test methods may be used with prior approval from the Ohio EPA, Central District Office.
    - iv. The test(s) shall be conducted while the emissions unit is burning coal and operating at or near its maximum capacity, unless otherwise specified or approved by the Ohio EPA, Central District Office.
  - c. Emission Limitation:
 

Particulate emissions shall not exceed 24.8 tons/yr.

Applicable Compliance Method:  
Compliance shall be demonstrated by summing the annual natural gas and coal emissions.

The annual natural gas emissions shall be determined by multiplying the annual natural gas usage (CF/yr) by the emission factor from AP-42 "Compilation of Air Pollutant Emission Factors", Table 1.4-2 (7/98) for filterable particulates from natural gas combustion (1.9 lbs of particulates/mmCF), and dividing by 2000 lbs/ton.

The annual coal emissions shall be determined by multiplying the emission factor established during the most recent emission tests that demonstrated that the emissions unit was in compliance (lbs PE/ton) by the amount of coal used (tons/yr) and dividing by 2000 lbs/ton.
  - d. Emission Limitations:
 

Nitrogen oxides emissions shall not exceed 0.6 lb/mmBtu of actual heat input and 108.6 lbs/hr.

Applicable Compliance Method:  
The permittee shall conduct, or have conducted, emission testing for this emissions unit in accordance with the following requirements:
 
    - i. The emission testing shall be conducted within 6 months following issuance of this permit and every 2.5 years thereafter.
    - ii. The emission testing shall be conducted to demonstrate compliance with the emission limitations for nitrogen oxides.
    - iii. The following test methods shall be employed to demonstrate compliance with the allowable mass emission rates: 40 CFR Part 60, Appendix A, Methods 1 through 4 and 7. Alternative U.S. EPA approved test methods may be used with prior approval from the Ohio EPA, Central District Office.

- iv. 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 Ohio EPA, Central District Office.
- e. Emission Limitation:  
Nitrogen oxides emissions shall not exceed 474.36 tons/yr.
- Applicable Compliance Method:  
Compliance shall be demonstrated by summing the annual natural gas and coal emissions.
- The annual natural gas emissions shall be determined by multiplying the annual natural gas usage (CF/yr) by the emission factor from AP-42 "Compilation of Air Pollutant Emission Factors", Table 1.4-1 (2/98) for nitrogen oxides from natural gas combustion (140 lbs of nitrogen oxides/mmCF), and dividing by 2000 lbs/ton.
- The annual coal emissions shall be determined by multiplying the hourly emission rate from the most recent emission test (lb/mmBtu) that demonstrated that the emissions unit was in compliance by the total tons of coal burned (Section A.III.2.b) and by the average annual heat content (Section A.III.2.e) divided by 1,000,000.
- f. Emission Limitation:  
Sulfur dioxide emissions shall not exceed 0.87 lb/mmBTU of actual heat input.
- Applicable Compliance Method:  
Compliance shall be based on the data obtained by the continuous sulfur dioxide emission monitoring system and the record keeping in Section A.III.1.
- If required, the permittee shall conduct emission testing for this emissions unit in accordance with 40 CFR Part 60, Appendix A, Method 6.
- g. Emission Limitation:  
Sulfur dioxide emissions shall not exceed 157.5 lbs/hr.
- Applicable Compliance Method:  
Compliance with this emission limitation can be assumed provided that the permittee demonstrates compliance with the 0.87 lb of sulfur dioxide/mmBtu emission limitation.
- If required, the permittee shall demonstrate compliance with this emission limitation through emission tests performed in accordance with 40 CFR Part 60, Appendix A, Methods 1 through 4 and 6.
- h. Emission Limitation:  
Sulfur dioxide emissions shall not exceed 687.83 tons/yr.
- Applicable Compliance Method:  
Compliance shall be demonstrated by summing the annual natural gas and coal emissions.
- The annual natural gas emissions shall be determined by multiplying the annual natural gas usage (CF/yr) by the emission factor from AP-42 "Compilation of Air Pollutant Emission Factors", Table 1.4-2 (7/98) for sulfur dioxide from natural gas combustion (0.6 lb of sulfur dioxide/mmCF), and dividing by 2000 lbs/ton.
- The annual coal emissions shall be determined by multiplying the CEMS emission data (lbs SO<sub>2</sub>/mmBtu) by the average annual coal heat content (Btu/lb coal) from Section A.III.2.e by the total annual quantity of coal burned (tons) from Section A.III.3.a and dividing by 1,000,000Btu/mmBtu.
- i. Emission Limitation:  
Carbon monoxide emissions shall not exceed 15.5 lbs/hr.
- Applicable Compliance Method:  
The permittee shall conduct, or have conducted, emission testing for this emissions unit in accordance with the following requirements:
- i. The emission testing shall be conducted within 6 months following issuance of this permit and every 2.5 years thereafter.
  - ii. The emission testing shall be conducted to demonstrate compliance with the carbon monoxide emission limitation.
  - iii. The following test method shall be employed to demonstrate compliance with the allowable mass emission rate: 40 CFR Part 60, Appendix A, Method 10. Alternative U.S. EPA approved test methods may be used with prior approval from the Ohio EPA, Central District Office.
  - iv. 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 Ohio EPA, Central District Office.
- j. Emission Limitation:  
Carbon monoxide emissions shall not exceed 67.61 tons/yr.
- Applicable Compliance Method:  
Compliance shall be demonstrated by summing the annual natural gas and coal emissions.

The annual natural gas emissions shall be determined by multiplying the annual natural gas usage (CF/yr) by the emission factor from AP-42 "Compilation of Air Pollutant Emission Factors", Table 1.4-1 (2/98) for carbon monoxide from natural gas combustion (84 lbs of carbon monoxide/mmCF), and dividing by 2000 lbs/ton.

The annual coal emissions shall be determined by multiplying the hourly emission rate from the most recent emission tests that demonstrated that the emissions unit was in compliance by the total annual operating hours from Section A.III.3.b and dividing by 2000 lbs/ton.

- k. Emission Limitation:  
Lead emissions shall not exceed 0.1 lb/hr.
- Applicable Compliance Method:  
Compliance may be demonstrated by multiplying the emission factor of 507 lbs lead/10e12 Btu (AP-42, Table 1.1-17, 9/98) by the maximum heat input capacity of the emissions unit (181 mmBtu/hr).
- If required, the permittee shall conduct emission testing for this emissions unit in accordance with 40 CFR Part 60, Appendix A, Methods 1 through 4 and 12.
- l. Emission Limitation:  
Lead emissions shall not exceed 0.44 ton/yr.
- Applicable Compliance Method:  
Compliance shall be demonstrated by multiplying the maximum emission rate of 0.1 lb lead/hr by the total annual operating hours from Section A.III.3.b and dividing by 2000 lbs/ton.
- m. Emission Limitation:  
Mercury emissions shall not exceed 0.003 lb/hr.
- Applicable Compliance Method:  
This emission limitation was established by multiplying the emission factor of 16 lbs mercury/10e12 Btu (AP-42, Table 1.1-17, 9/98) by the maximum capacity of the emissions unit (181 mmBtu/hr).
- If required, the permittee shall conduct emission testing for this emissions unit in accordance with 40 CFR Part 60, Appendix A, Methods 1 through 4 and 29.
- n. Emission Limitation:  
Mercury emissions shall not exceed 0.02 ton/yr.
- Applicable Compliance Method:  
Compliance shall be demonstrated by multiplying the maximum emission rate of 0.003 lb/hr by the total annual operating hours from Section A.III.3.b and dividing by 2000 lbs/ton.
- o. Emission Limitation:  
Fluoride emissions shall not exceed 0.004 lb/hr.
- Applicable Compliance Method:  
This emission limitation was established by multiplying the maximum coal burned per hour, 7.42 tons (per the Title V application submitted 3/15/01) by the emission factor of 0.00054 lb Fluoride/ton coal burned (from AP-42, Supplement 13, Table 1.1, 1982).
- If required, the permittee shall conduct emission testing for this emissions unit in accordance with 40 CFR Part 60, Appendix A, Methods 1 through 4 and 13A or 13B.
- p. Emission Limitation:  
Fluoride emissions shall not exceed 0.0182 ton/yr.
- Applicable Compliance Method:  
Compliance shall be demonstrated by multiplying the maximum emission rate of 0.004 lb fluoride/hr by the total annual operating hours from Section A.III.3.b and dividing by 2000 lbs/ton.
- q. Emission Limitation:  
Beryllium emissions shall not exceed 0.015 lb/hr.
- Applicable Compliance Method:  
This emission limitation was established by multiplying the emission factor of 2.1 lbs beryllium/10e5 Btu (from AP-42, Table 1.1-18, 9/98) by the maximum capacity of the emissions unit (181 mmBtu/hr).
- If required, the permittee shall conduct emission testing for this emissions unit in accordance with 40 CFR Part 60, Appendix A, Methods 1 through 4 and 29.
- r. Emission Limitation:  
Beryllium emissions shall not exceed 0.07 ton/yr.
- Applicable Compliance Method:  
Compliance shall be demonstrated by multiplying the maximum emission rate of 0.015 lb/hr by the total annual operating hours from Section A.III.3.b and dividing by 2000 lbs/ton.

- s. Emission Limitation:  
 Particulate emissions shall not exceed 0.020 lb/mmBtu of actual heat input when burning only natural gas.  
  
 Applicable Compliance Method:  
 Compliance with this emission limitation may be demonstrated by multiplying the maximum hourly gas burning capacity of the emissions unit (106,796 CF/hr) by the emission factor from AP-42 "Compilation of Air Pollutant Emission Factors", Table 1.4-2 (7/98) for filterable particulates in natural gas combustion (1.9 lbs of particulates/mmCF), and dividing by the maximum hourly heat input capacity of the natural gas burner (110 mmBtu/hr).  
  
 If required, the permittee shall demonstrate compliance with this emission limitation through emission tests performed in accordance with 40 CFR Part 60, Appendix A, Methods 1 through 5 and the procedures specified in OAC rule 3745-17-03(B)(9).
- 2. Not later than 30 days prior to any proposed test date(s), the permittee shall submit an "Intent to Test" notification to the Ohio EPA, Central District Office. 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, Central District Office's refusal to accept the results of the emission test(s).  
  
 Personnel from the Ohio EPA, Central District Office 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 emission test(s) shall be signed by the person or persons responsible for the tests and submitted to the Ohio EPA, Central District Office 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 Ohio EPA, Central District Office.

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VI. **Miscellaneous Requirements**

- 1. None

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Facility ID: 0125042608 Emissions Unit ID: B131 Issuance type: Title V Final 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>
2. <b>Additional Terms and Conditions</b>			
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: 0125042608 Emissions Unit ID: B132 Issuance type: Title V Final 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>
313.1 mmBtu/hr natural gas and 300.1 mmBtu/hr number 2 fuel oil-fired boiler - Boiler #5	OAC rule 3745-31-05(A)(3) (PTI 01-7409)	<p>Particulate emissions shall not exceed 0.0196 lb/mmBtu of actual heat input when burning number 2 fuel oil and 0.007 lb/mmBtu when burning natural gas.</p> <p>Sulfur dioxide emissions shall not exceed 0.507 lb/mmBtu of actual heat input when burning number 2 fuel oil and 0.0006 lb/mmBtu when burning natural gas.</p> <p>Volatile organic compound emissions shall not exceed 0.009 lb/mmBtu of actual heat input when burning number 2 fuel oil and 0.008 lb/mmBtu when burning natural gas.</p> <p>Nitrogen oxides emissions shall not exceed 0.12 lb/mmBtu of actual heat input when burning number 2 fuel oil and 0.036 lb/mmBtu when burning natural gas.</p> <p>Carbon monoxide emissions shall not exceed 0.17 lb/mmBtu of actual heat input when burning number 2 fuel oil and 0.072 lb/mmBtu when burning natural gas.</p> <p>The requirements of this rule also include compliance with the requirements of OAC rule 3745-17-07(A), OAC rule 3745-31-05(D) and 40 CFR Part 60, Subpart</p>

OAC rule 3745-18-06(D)	Db. The emission limitations established pursuant to OAC rule 3745-31-05 (A)(3) are more stringent than the emission limitation established by this rule.
OAC rule 3745-17-10(B)(1)	The emission limitations established pursuant to OAC rule 3745-31-05 (A)(3) are more stringent than the emission limitation established by this rule.
40 CFR Part 60, Subpart Db	When firing number two fuel oil, visible particulate emissions shall not exceed 60% opacity, as a 6-minute average, except for one 6-minute period per hour of not more than 27% opacity.
OAC rule 3745-17-07(A)	See A.II.4 and A.II.6 below. When firing natural gas, visible particulate emissions shall not exceed 20% opacity, as a 6-minute average, except as provided by rule.
OAC rules 3745-21-08(B) and 3745-23-06(B)	See A.I.2.a below.
OAC rule 3745-31-05(D) (PTI 01-7409)	Particulate emissions shall not exceed 7.7 tons/year when burning natural gas and/or number 2 fuel oil.  Sulfur dioxide emissions shall not exceed 15.8 tons/year when burning natural gas and/or number 2 fuel oil.  Volatile organic compound emissions shall not exceed 8.3 tons/year when burning natural gas and/or number 2 fuel oil.  Nitrogen oxides emissions shall not exceed 39.95 tons/year when burning natural gas and/or number 2 fuel oil.  Carbon monoxide emissions shall not exceed 77.8 tons/year when burning natural gas and/or number 2 fuel oil.
	See A.II.1-3 and A.II.5 below.

**2. Additional Terms and Conditions**

- a. The permittee has satisfied the "best available control techniques and operating practices" and "latest available control techniques and operating practices" required pursuant to OAC rules 3745-21-08 and 3745-23-06, respectively by committing to comply with the best available technology requirements established pursuant to OAC rule 3745-31-05(A)(3) in Permit to Install 01-7409.

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**II. Operational Restrictions**

1. The annual natural gas consumption shall not exceed 1,951 million cubic feet (MM cu.ft) based upon a rolling, 365-day summation of the natural gas consumption figures.
2. The annual number 2 fuel oil consumption shall not exceed 428,800 gallons based upon a rolling, 365-day summation of the number 2 fuel oil consumption figures.
3. The quality of the number 2 fuel oil burned in this emissions unit shall meet, on an as-received basis, a sulfur content which is equal to or less than 0.5 weight percent sulfur.
4. The permittee shall operate and maintain equipment to continuously monitor and record the opacity of the particulate emissions from this emissions unit when combusting number 2 fuel oil.
5. The permittee shall operate low NOx burners and employ flue gas recirculation at all times this emissions unit is in operation.
6. The permittee shall operate and maintain equipment to continuously monitor and record the NOx emissions from this emissions unit when combusting natural gas and/or number 2 fuel oil.
7. The permittee shall burn only natural gas and/or number 2 fuel oil in this emissions unit.

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

1. The permittee shall collect or require the oil supplier to collect a representative grab sample for each shipment of oil that is received for burning in this emissions unit. The permittee shall perform or require the supplier to perform the analyses for sulfur content and heat content in accordance with the following ASTM methods: ASTM method D4294, ASTM method D240, or ASTM method 6010 for sulfur content; and ASTM method D240 for heat content. Alternative, equivalent methods may be used upon written approval by the

appropriate Ohio EPA, Central District Office.

2. For each shipment of oil received for burning in this emissions unit, the permittee shall maintain records of the total quantity of oil received, the permittee's or oil supplier's analyses for sulfur content and heat content, and the calculated sulfur dioxide emission rate (in lbs/mmBtu). (The sulfur dioxide emission rate shall be calculated in accordance with the formula specified in OAC rule 3745-18-04(F).)
3. For each day during which the permittee burns a fuel other than natural gas or number 2 fuel oil, the permittee shall maintain a record of the type and quantity of fuel burned in this emissions unit.
4. The permittee shall maintain daily records of the following information:
  - a. the natural gas consumption for each day (MM cu.ft);
  - b. the number 2 fuel oil consumption for each day (gal);
  - c. the total actual heat input values as determined through F-Factor and carbon dioxide/oxygen calculations as specified in 40 CFR Part 60, Appendix A, Method 19;
  - d. the rolling, 30-day average nitrogen oxides emission rate, in lb/mmBtu when burning number 2 fuel oil;
  - e. the rolling, 30-day average nitrogen oxides emission rate, in lb/mmBtu when burning natural gas;
  - f. the rolling, 365-day summation of the natural gas consumption figures (MM cu.ft); and
  - g. the rolling, 365-day summation of the number 2 fuel oil consumption figures (gal).
5. The permittee shall operate and maintain existing equipment to continuously monitor and record the opacity of the particulate emissions from this emissions unit when using number 2 fuel oil. Such continuous monitoring and recording equipment shall comply with the requirements specified in 40 CFR Part 60.13.

Each continuous emission monitoring system consists of all the equipment used to acquire data and includes the sample extraction and transport hardware, sample conditioning hardware, analyzers, and data recording/processing hardware and software.

The permittee shall maintain a certification letter from the Ohio EPA documenting that the continuous opacity monitoring system has been certified in accordance with the requirements of 40 CFR Part 60, Appendix B, Performance Specification 1. The letter of certification shall be made available to the Director upon request.

The permittee shall maintain records of the following data obtained by the continuous opacity monitoring system: percent opacity on a 6-minute block average basis, results of daily zero/span calibration checks, and magnitude of manual calibration adjustments.
6. Within 180 days of the effective date of this permit, the permittee shall develop a written quality assurance/quality control plan for the continuous opacity monitoring system designed to ensure continuous valid and representative readings of opacity. The plan shall include, as a minimum, conducting and recording daily automatic zero/span checks, provisions for conducting a quarterly audit of the continuous opacity monitoring system, and a description of preventive maintenance activities. The plan shall describe step by step procedures for ensuring that sections 7.1.4, 7.4.1, 7.4.2, and Table 1-1 of Performance Specification 1 are maintained on a continuous basis. The quality assurance/quality control plan and a logbook dedicated to the continuous opacity monitoring system must be kept on site and available for inspection during regular office hours.
7. The permittee shall operate and maintain existing equipment to continuously monitor and record NOx emissions from this emissions unit, in units of the applicable standard. Such continuous monitoring and recording equipment shall comply with the requirements specified in 40 CFR Part 60.13 and/or 40 CFR Part 75.

The permittee shall maintain on-site documentation from the USEPA or the Ohio EPA that the continuous nitrogen oxides monitoring system has been certified in accordance with 40 CFR Part 60. The letter of certification shall be made available to the Director upon request.

The permittee shall maintain records of the following data obtained by the continuous nitrogen oxides monitoring system: emissions of nitrogen oxides in lb/mmBtu actual heat input on an hourly average basis, emissions of nitrogen oxides in lb/mmBtu actual heat input on a daily average basis, emissions of nitrogen oxides in lb/mmBtu on a rolling, 30-day average basis, results of daily zero/span calibration checks, and magnitude of manual calibration adjustments.
8. Within 180 days of the effective date of this permit, the permittee shall develop a written quality assurance/quality control plan for the continuous NOx monitoring system designed to ensure continuous valid and representative readings of NOx emissions in units of the applicable standard. The plan shall follow the requirements of 40 CFR Part 60, Appendix F and/or 40 CFR Part 75, Appendix B. The quality assurance/quality control plan and a logbook dedicated to the continuous NOx monitoring system must be kept on site and available for inspection during regular office hours.
9. Each continuous emission monitoring system consists of all the equipment used to acquire data and includes the sample extraction and transport hardware, sample conditioning hardware, analyzers, and data recording/processing hardware and software.
10. Each record of any monitoring data, testing data, and support information required pursuant to this permit shall be retained for a period of 5 years from the date the record was created. Support information shall include, but not be limited to, all calibration and maintenance records and all original strip-chart recordings for continuous monitoring instrumentation, and copies of all reports required by the permit. Such records may be maintained in computerized form.

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**IV. Reporting Requirements**

1. The permittee shall submit quarterly deviation (excursion) reports for the following:
  - a. all exceedances of the rolling, 365-day natural gas consumption limitation;
  - b. all exceedances of the rolling, 365-day number 2 fuel oil consumption limitation; and
  - c. all exceedances of the number 2 fuel oil sulfur content limitation.

The quarterly reports shall be submitted in accordance with General Term and Condition A.1.c.ii of this permit.
2. The permittee shall notify the Director (the Ohio EPA, Central District Office) in writing of any record which shows a deviation of the allowable sulfur dioxide emission limitation based upon the calculated sulfur dioxide emission rates and any record which shows a deviation of the allowable sulfur content. The notification shall include a copy of such record and shall be sent to the Director (the Ohio EPA, Central District Office) within 45 days after the deviation occurs.
3. The permittee shall submit deviation (excursion) reports that identify each day when a fuel other than natural gas and/or number 2 fuel oil was burned in this emissions unit. Each report shall be submitted within 30 days after the deviation occurs.
4. The permittee shall submit reports (hardcopy or electronic format) within 30 days following the end of each calendar quarter to the Ohio EPA, Central District Office documenting all instances of opacity values in excess of the limitations specified above when burning number 2 fuel oil, detailing the date, commencement and completion times, duration, magnitude (percent opacity), reason (if known), and corrective action(s) taken (if any) of each 6-minute block average above the applicable opacity limitation(s).
 

The reports shall also identify any continuous opacity monitoring system downtime while the emissions unit was on line (date, time, duration and reason) when burning number 2 fuel oil, along with any corrective action(s) taken. The permittee shall provide the emissions unit operating time during the reporting period and the date, time, reason, and corrective action(s) taken for each time period of emissions unit and control equipment malfunctions. The total operating time of the emissions unit and the total operating time of the analyzer while the emissions unit was on line shall be included in the quarterly report.

If there are no excess emissions during the calendar quarter, the permittee shall submit a statement to that effect along with the date, time, reason, and corrective action(s) taken for each time period of monitoring system malfunction. The total operating time of the emissions unit and the total operating time of the analyzer while the emissions unit was on line also shall be included in the quarterly report.

These quarterly excess emission reports shall be submitted by January 30, April 30, July 30, and October 30 of each year and shall address the data obtained during the previous calendar quarter.
5. The permittee shall submit reports (hardcopy or electronic format) within 30 days following the end of each calendar quarter to the Ohio EPA, Central District Office documenting the date, commencement and completion time, duration, magnitude, reason (if known), and corrective actions taken (if any), of all 30-day average nitrogen oxides values in excess of the applicable nitrogen oxides emission rate (lb/mmBtu).
 

The reports shall also document any continuous nitrogen oxides monitoring system downtime while the emissions unit was on line (date, time, duration and reason), along with any corrective action(s) taken. The permittee shall provide the emissions unit operating time during the reporting period and the date, time, reason and corrective action(s) taken for each time period of emissions unit and control equipment malfunctions. The total operating time of the emissions unit and the total operating time of the analyzer while the emissions unit was on line shall also be included in the quarterly report.

If there are no excess emissions during the calendar quarter, the permittee shall submit a statement to that effect along with the date, time, reason, and corrective action(s) taken for each time period of monitoring system malfunction. The total operating time of the emissions unit and the total operating time of the analyzer while the emissions unit was on line also shall be included in the quarterly report.

These quarterly excess emission reports shall be submitted by January 30, April 30, July 30, and October 30 of each year and shall address the data obtained during the previous calendar quarter.
6. The permittee shall submit annual reports that specify the total particulate, sulfur dioxide, volatile organic compound, nitrogen oxides, and carbon monoxide emissions for this emissions unit for the previous calendar year. These reports shall be submitted by January 31 of each year

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**V. Testing Requirements**

1. Compliance with the emission limitations specified in Section A.I shall be determined in accordance with the following methods:
  - a. Emission Limitations:
 

Particulate emissions shall not exceed 0.0196 lb/mmBtu of actual heat input while burning number 2 fuel oil, and 0.007 lb/mmBtu while burning natural gas.

Applicable Compliance Method:  
When firing natural gas, compliance with this emission limitation may be demonstrated by multiplying the

maximum hourly gas burning capacity of the emissions unit (302,512 CF/hr) by the emission factor from AP-42 "Compilation of Air Pollutant Emission Factors", Table 1.4-2 (7/98) for filterable particulates in natural gas combustion (1.9 lbs of particulates/mmCF), and dividing by the maximum hourly heat input capacity of the emissions unit (313 mmBtu/hr).

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

- i. The emission testing shall be conducted within 6 months of permit expiration when firing number 2 fuel oil.
- ii. The emission testing shall be conducted to demonstrate compliance with the particulate emission limitation.
- iii. The following test methods shall be employed to demonstrate compliance with the allowable mass emission rate(s): 40 CFR Part 60, Appendix A, Methods 1 through 5. Alternative U.S. EPA approved test methods may be used with prior approval from the Ohio EPA.
- iv. 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 Ohio EPA, Central District Office.

b. Emission Limitation:

Particulate emissions shall not exceed 7.7 tons/year when burning natural gas and/or number 2 fuel oil.

Applicable Compliance Method:

Compliance shall be demonstrated by summing the annual natural gas and number 2 fuel oil emissions.

The natural gas annual emissions shall be determined by multiplying the annual natural gas usage (CF/yr) by the emission factor from AP-42 "Compilation of Air Pollutant Emission Factors", Table 1.4-2 (7/98) for filterable particulates in natural gas combustion (1.9 lbs of particulates/mmCF), and dividing by 2000 pounds per ton.

The number 2 fuel oil emissions shall be determined by multiplying the emission factor established during the most recent emission test that demonstrated compliance (lbs/gal) by the annual number 2 fuel oil usage (gal/yr) and dividing by 2000 pounds per ton.

c. Emission Limitations:

Sulfur dioxide emissions shall not exceed 0.507 lb/mmBtu of actual heat input when burning number 2 fuel oil and 0.0006 lb/mmBtu when burning natural gas.

Applicable Compliance Method:

When firing fuel oil, compliance with the allowable sulfur dioxide emission limitation shall be demonstrated by documenting that the sulfur content of each shipment of oil received during a calendar month meets the limitation.

When firing natural gas, compliance with this limitation will be assumed due to the negligible percent sulfur, by weight, in the fuel.

If required, the permittee shall demonstrate compliance with this emission limitation through emission tests performed in accordance with 40 CFR Part 60, Appendix A, Methods 1 through 4 and 6, while firing number 2 fuel oil.

d. Emission Limitation:

Sulfur dioxide emissions shall not exceed 15.8 tons/year when burning natural gas and/or number 2 fuel oil.

Applicable Compliance Method:

Compliance shall be demonstrated by summing the annual natural gas and number 2 fuel oil emissions.

The natural gas annual emissions shall be determined by multiplying the annual natural gas usage (CF/yr) by the emission factor from AP-42 "Compilation of Air Pollutant Emission Factors", Table 1.4-2 (7/98) for sulfur dioxide in natural gas combustion (0.6 lb of SO<sub>2</sub>/mmCF), and dividing by 2000 pounds per ton.

When firing fuel oil compliance with the allowable sulfur dioxide emission limitation shall be demonstrated by multiplying the rolling, 365-day summation of number 2 fuel oil consumption (gal) by the emission factor of 157\*S lbs SO<sub>2</sub>/gal, where S equals sulfur content (from AP-42, Table 1.3-1, 9/98) and dividing by 2000 pounds per ton.

e. Emission Limitations:

Volatile organic compound emissions shall not exceed 0.009 lb/mmBtu of actual heat input when burning number 2 fuel oil and 0.008 lb/mmBtu when burning natural gas.

Applicable Compliance Method:

When firing natural gas, compliance may be demonstrated by multiplying the maximum hourly gas burning capacity of the emissions unit (302,512 CF/hr) by the emission factor from AP-42 "Compilation of Air Pollutant Emission Factors", Table 1.4-2 (7/98) for volatile organic compounds in natural gas combustion (5.5 lbs of VOC/mmCF), and dividing by the maximum hourly heat input capacity of the emissions unit (313 mmBtu/hr).

When firing number 2 fuel oil, compliance with this emission limitation may be demonstrated by multiplying the maximum fuel oil burning capacity of the emissions unit (2144 gal/hr) by the emission

factor from AP-42 "Compilation of Air Pollutant Emission Factors", Table 1.3-1 (9/98) for volatile organic compounds in number 2 fuel oil combustion (0.34 lb of VOC/1000 gal), and dividing by the maximum hourly heat input capacity of the emissions unit (300.1 mmBtu/hr).

If required, the permittee shall demonstrate compliance with this emission limitation through emission tests performed in accordance with 40 CFR Part 60, Appendix A, Methods 1 through 4 and 25.

f. Emission Limitation:

Volatile organic compound emissions shall not exceed 8.3 tons/year when burning natural gas and/or number 2 fuel oil.

Applicable Compliance Method:

Compliance shall be demonstrated by summing the annual natural gas and number 2 fuel oil emissions.

The natural gas annual emissions shall be determined by multiplying the annual natural gas usage (CF/yr) by the emission factor from AP-42 "Compilation of Air Pollutant Emission Factors", Table 1.4-5 (7/98) for volatile organic compounds in natural gas combustion (5.5 lbs VOC/mmCF), and dividing by 2000 pounds per ton.

The number 2 fuel oil emissions shall be determined by multiplying the annual number 2 fuel oil usage (gal) by the emission factor from AP-42 "Compilation of Air Pollutant Emission Factors", Table 1.3-1 (9/98) for volatile organic compounds in number 2 fuel oil combustion (0.34 lb of VOC/1000 gal), and dividing by 2000 pounds per ton.

g. Emission Limitations:

Carbon monoxide emissions shall not exceed 0.17 lb/mmBtu of actual heat input while burning number 2 fuel oil, and 0.072 lb/mmBtu of actual heat input while burning natural gas.

Applicable Compliance Method:

When firing natural gas, compliance may be demonstrated by multiplying the maximum hourly gas burning capacity of the emissions unit (302,512 CF/hr) by the emission factor supplied by the boiler manufacturer (Babcock and Wilcox, 4/29/01) for carbon monoxide in natural gas combustion (74.5 lbs of CO/MM cu.ft), and dividing by the maximum hourly heat input capacity of the emissions unit (313 mmBtu/hr).

When firing number 2 fuel oil, compliance with this emission limitation may be demonstrated by multiplying the maximum fuel oil burning capacity of the emissions unit (2144 gal/hr) by the emission factor from AP-42 "Compilation of Air Pollutant Emission Factors", Table 1.3-1 (9/98) for carbon monoxide in number 2 fuel oil combustion (5 lbs of CO/1000 gal), and dividing by the maximum hourly heat input capacity of the emissions unit (300.1 mmBtu/hr).

If required, the permittee shall demonstrate compliance with this emission limitation through emission tests performed in accordance with 40 CFR Part 60, Appendix A, Methods 1 through 4 and 10.

h. Emission Limitation:

Carbon monoxide emissions shall not exceed 77.8 tons/year when burning natural gas and/or number 2 fuel oil.

Applicable Compliance Method:

Compliance shall be demonstrated by summing the annual natural gas and number 2 fuel oil emissions.

The natural gas annual emissions shall be determined by multiplying the annual natural gas usage (CF/yr) by the emission factor supplied by the boiler manufacturer (Babcock and Wilcox, 4/29/01) for carbon monoxide in natural gas combustion (74.4 lbs CO/MM cu.ft), and dividing by 2000 pounds per ton.

The number 2 fuel oil emissions shall be determined by multiplying the annual number 2 fuel oil usage (gal) by the emission factor from AP-42 "Compilation of Air Pollutant Emission Factors", Table 1.3-1 (9/98) for carbon monoxide in number 2 fuel oil combustion (5 lbs of CO/1000 gal), and dividing by 2000 pounds per ton.

i. Emission Limitations:

Nitrogen oxides emissions shall not exceed 0.12 lb/mmBtu of actual heat input while burning number 2 fuel oil and 0.036 lb/mmBtu of actual heat input while burning natural gas.

Applicable Compliance Method:

When firing natural gas, compliance with the emission limitation may be demonstrated on a continuous basis through the use of a 30-day rolling average emission rate. A new 30-day rolling average emission rate is calculated each steam generating unit operating day as the average of all of the hourly nitrogen oxides emission data for the preceding 30 steam generating unit operating days.

When burning number 2 fuel oil, compliance with the emission limitation may be demonstrated on a continuous basis through the use of a 30-day rolling average emission rate. A new 30-day rolling average emission rate is calculated each steam generating unit operating day as the average of all of the hourly nitrogen oxides emission data for the preceding 30 steam generating unit operating days.

If required, the permittee shall demonstrate compliance with this emission limitation through emission tests performed in accordance with 40 CFR Part 60, Appendix A, Methods 1 through 4 and 7.

j. Emission Limitation:

Nitrogen oxides emissions shall not exceed 39.95 tons/year when burning natural gas and/or number 2

fuel oil.

Applicable Compliance Method:  
Compliance shall be demonstrated by summing the annual natural gas and number 2 fuel oil emissions.

The annual natural gas emissions shall be determined by multiplying the CEMS emission data (lbs NOx/mmBtu) by the average annual natural gas heat content (Btu/cu.ft) from Section A.III.4.c by the annual natural gas usage (mmcu.ft/yr) from Section A.III.4.f and dividing by 1,000,000 Btu/mmBtu and again by 2000 lbs/ton.

The annual number 2 fuel oil emissions shall be determined by multiplying the CEMS emission data (lbs NOx/mmBtu) by the average annual number 2 fuel oil heat content (Btu/gal) from Section A.III.4.c, multiplying by the annual number 2 fuel oil usage (gal) from Section A.III.4.g, multiplying by 1,000,000 and dividing by 2000 lbs/ton.

- k. Emission Limitation:  
When firing natural gas, visible particulate emissions shall not exceed 20% opacity, as a 6-minute average, except as provided by rule.

Applicable Compliance Method:  
If required, compliance shall be determined through visible emissions observations performed in accordance with 40 CFR Part 60, Appendix A, Method 9 and the procedures specified in OAC rule 3745-17-03(B)(1).

- l. Emission Limitation:  
When firing number 2 fuel oil, visible particulate emissions shall not exceed 20% opacity, as a 6-minute average, except for one 6-minute period per hour of not more than 27% opacity.

Applicable Compliance Method:  
Compliance may be determined by the data collected and recorded in Section A.III.5 for the COM and, if required, by visible emissions observations performed in accordance with 40 CFR Part 60, Appendix A, Method 9.

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VI. **Miscellaneous Requirements**

- 1. None

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Facility ID: 0125042608 Emissions Unit ID: B132 Issuance type: Title V Final 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>
2. <b>Additional Terms and Conditions</b>		
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: 0125042608 Emissions Unit ID: B134 Issuance type: Title V Final 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>
16.7 mmBtu/hr natural gas-fired boiler - VH #3	OAC rule 3745-17-07(A) OAC rule 3745-17-10(B)(1)	Visible particulate emissions shall not exceed 20% as a 6-minute average, except as provided by rule. Particulate emissions shall not exceed 0.020 pound per mmBtu of actual heat input.

2. **Additional Terms and Conditions**

- (a) None

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II. **Operational Restrictions**

- 1. The permittee shall burn only natural gas in this emissions unit.

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

- 1. For each day during which the permittee burns a fuel other than natural gas, the permittee shall maintain a record of the type and quantity of fuel burned in this emissions unit.

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**IV. Reporting Requirements**

1. The permittee shall submit deviation (excursion) reports that identify each day when a fuel other than natural gas was burned in this emissions unit. Each report shall be submitted within 30 days after the deviation occurs.

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**V. Testing Requirements**

1. Compliance with the emission limitation(s) in Section A.I. of these terms and conditions shall be determined in accordance with the following method(s):
  - a. Emission Limitation:  
Visible particulate emissions shall not exceed 20% opacity as a 6-minute average, except as provided by rule.  
  
Applicable Compliance Method:  
If required, compliance shall be determined through visible emissions observations performed in accordance with 40 CFR Part 60, Appendix A, Method 9 and the procedures specified in OAC rule 3745-17-03(B)(1).
  - b. Emission Limitation:  
Particulate emissions shall not exceed 0.020 pound per mmBtu of actual heat input.  
  
Applicable Compliance Method:  
Compliance may be determined by multiplying the maximum natural gas burning capacity of the emissions unit (16,700 CF/hr) by the AP-42 (Table 1.4-5, 7/98) emission factor for natural gas combustion (1.9 lbs/mmCF) and dividing by the maximum heat input capacity of the emissions unit (16.7 mmBtu/hr).  
  
If required, the permittee shall demonstrate compliance with this emission limitation through emission tests performed in accordance with 40 CFR Part 60, Appendix A, Methods 1 through 5 and the procedures specified in OAC rule 3745-17-03(B)(9).

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**VI. Miscellaneous Requirements**

1. None

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Facility ID: 0125042608 Emissions Unit ID: B134 Issuance type: Title V Final 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>
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**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: 0125042608 Emissions Unit ID: B135 Issuance type: Title V Final 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>
16.7 mmBtu/hr natural gas-fired boiler - VH #4	OAC rule 3745-17-07(A)  OAC rule 3745-17-10(B)(1)	Visible particulate emissions shall not exceed 20% as a 6-minute average, except as provided by rule. Particulate emissions shall not exceed 0.020 pound per mmBtu of actual heat input.

**2. Additional Terms and Conditions**

- (a) None

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**II. Operational Restrictions**

- 1. The permittee shall burn only natural gas in this emissions unit.

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

1. For each day during which the permittee burns a fuel other than natural gas, the permittee shall maintain a record of the type and quantity of fuel burned in this emissions unit.

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**IV. Reporting Requirements**

1. The permittee shall submit deviation (excursion) reports that identify each day when a fuel other than natural gas was burned in this emissions unit. Each report shall be submitted within 30 days after the deviation occurs.

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**V. Testing Requirements**

1. Compliance with the emission limitation(s) in Section A.I. of these terms and conditions shall be determined in accordance with the following method(s):
  - a. Emission Limitation:  
Visible particulate emissions shall not exceed 20% opacity as a 6-minute average, except as provided by rule.  
  
Applicable Compliance Method:  
If required, compliance shall be determined through visible emissions observations performed in accordance with 40 CFR Part 60, Appendix A, Method 9 and the procedures specified in OAC rule 3745-17-03(B)(1).
  - b. Emission Limitation:  
Particulate emissions shall not exceed 0.020 pound per mmBtu of actual heat input.  
  
Applicable Compliance Method:  
Compliance may be determined by multiplying the maximum natural gas burning capacity of the emissions unit (16,700 CF/hr) by the AP-42 (Table 1.4-5, 7/98) emission factor for natural gas combustion (1.9 lbs/mmCF) and dividing by the maximum heat input capacity of the emissions unit (16.7 mmBtu/hr).  
  
If required, the permittee shall demonstrate compliance with this emission limitation through emission tests performed in accordance with 40 CFR Part 60, Appendix A, Methods 1 through 5 and the procedures specified in OAC rule 3745-17-03(B)(9).

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**VI. Miscellaneous Requirements**

1. None

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Facility ID: 0125042608 Emissions Unit ID: B135 Issuance type: Title V Final 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</u>
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**Measures**

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: 0125042608 Emissions Unit ID: B136 Issuance type: Title V Final 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>
16.7 mmBtu/hr natural gas-fired boiler - VH #5	OAC rule 3745-17-07(A) OAC rule 3745-17-10(B)(1)	Visible particulate emissions shall not exceed 20% as a 6-minute average, except as provided by rule. Particulate emissions shall not exceed 0.020 pound per mmBtu of actual heat input.

2. **Additional Terms and Conditions**

- (a) None

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II. **Operational Restrictions**

1. The permittee shall burn only natural gas in this emissions unit.

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

1. For each day during which the permittee burns a fuel other than natural gas, the permittee shall maintain a record of the type and quantity of fuel burned in this emissions unit.

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IV. **Reporting Requirements**

1. The permittee shall submit deviation (excursion) reports that identify each day when a fuel other than natural gas was burned in this emissions unit. Each report shall be submitted within 30 days after the deviation occurs.

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V. **Testing Requirements**

1. Compliance with the emission limitation(s) in Section A.I. of these terms and conditions shall be determined in accordance with the following method(s):

a. Emission Limitation:

Visible particulate emissions shall not exceed 20% opacity as a 6-minute average, except as provided by rule.

Applicable Compliance Method:

If required, compliance shall be determined through visible emissions observations performed in accordance with 40 CFR Part 60, Appendix A, Method 9 and the procedures specified in OAC rule 3745-17-03(B)(1).

b. Emission Limitation:

Particulate emissions shall not exceed 0.020 pound per mmBtu of actual heat input.

Applicable Compliance Method:

Compliance may be determined by multiplying the maximum natural gas burning capacity of the emissions unit (16,700 CF/hr) by the AP-42 (Table 1.4-5, 7/98) emission factor for natural gas combustion (1.9 lbs/mmCF) and dividing by the maximum heat input capacity of the emissions unit (16.7 mmBtu/hr).

If required, the permittee shall demonstrate compliance with this emission limitation through emission tests performed in accordance with 40 CFR Part 60, Appendix A, Methods 1 through 5 and the procedures specified in OAC rule 3745-17-03(B)(9).

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VI. **Miscellaneous Requirements**

1. None

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Facility ID: 0125042608 Emissions Unit ID: B136 Issuance type: Title V Final 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>
<b>2. Additional Terms and Conditions</b>		
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: 0125042608 Emissions Unit ID: B137 Issuance type: Title V Final 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>
230 HP Caterpillar natural gas-driven compressor	OAC rule 3745-17-07(A)	Visible particulate emissions shall not exceed 20% opacity as a 6-minute average, except as provided by rule.
	OAC rule 3745-17-11(B)(5)(a)	Particulate emissions shall not exceed 0.25 lb/mmBtu

actual heat input.

See A.I.2.a below.

OAC rule 3745-17-11(B)(5)(a)

Particulate emissions shall not exceed 0.310 lb/mmBtu actual heat input.

See A.I.2.b below.

OAC rule 3745-18-06

None, exempt pursuant to OAC rules 3745-18-06(A) and 3745-18-06(B).

**2. Additional Terms and Conditions**

- a. The requirement to comply with this particulate emission limitation shall terminate on the date the U.S. EPA approves the 0.310 lb/mmBtu actual heat input emission limitation as a revision to the Ohio SIP for particulate matter.
- b. This particulate emission limitation shall be effective and federally enforceable on the date the U.S. EPA approves this particulate emission limitation as a revision to the Ohio SIP for particulate matter.

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**II. Operational Restrictions**

- 1. The permittee shall burn only natural gas in this emissions unit.

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

- 1. For each day during which the permittee burns a fuel other than natural gas, the permittee shall maintain a record of the type and quantity of fuel burned in this emissions unit.

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**IV. Reporting Requirements**

- 1. The permittee shall submit deviation (excursion) reports that identify each day when a fuel other than natural gas was burned in this emissions unit. Each report shall be submitted within 30 days after the deviation occurs.

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**V. Testing Requirements**

- 1. Compliance with the emission limitations in Section A.I. of these terms and conditions shall be determined in accordance with the following methods:
  - a. Emission Limitation:
 

Visible particulate emissions shall not exceed 20% opacity as a 6-minute average, except as provided by rule.

Applicable Compliance Method:  
If required, compliance shall be determined through visible emissions observations performed in accordance with 40 CFR Part 60, Appendix A, Method 9 and the procedures specified in OAC rule 3745-17-03(B)(1).
  - b. Emission Limitation:
 

Particulate emissions shall not exceed 0.25 lb/mmBtu actual heat input.

Applicable Compliance Method:  
Compliance may be based upon an emission factor of 0.0095 lb/mmBtu. This emission factor is specified in USEPA reference document AP-42, Fifth Edition, Compilation of Air Pollution Emission Factors, Section 3.2, Table 3.2-3 (07/00).

If required, the permittee shall demonstrate compliance with this emission limitation in accordance with the methods and procedures specified in OAC rule 3745-17-03(B)(10).
  - c. Emission Limitation:
 

Particulate emissions shall not exceed 0.310 lb/mmBtu of actual heat input.

Applicable Compliance Method:  
Compliance may be based upon an emission factor of 0.0095 lb/mmBtu. This emission factor is specified in USEPA reference document AP-42, Fifth Edition, Compilation of Air Pollution Emission Factors, Section 3.2, Table 3.2-3 (07/00).

If required, the permittee shall demonstrate compliance with this emission limitation in accordance with the methods and procedures specified in OAC rule 3745-17-03(B)(10).

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VI. **Miscellaneous Requirements**

- 1. None

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Facility ID: 0125042608 Emissions Unit ID: B137 Issuance type: Title V Final 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>
2. <b>Additional Terms and Conditions</b>			
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: 0125042608 Emissions Unit ID: K001 Issuance type: Title V Final 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>
offset, lithographic 5-color printing press	OAC rule 3745-31-05(A)(3) (PTI 01-8361)	Organic compound (OC) emissions shall not exceed 8 lbs/hr, 40 lbs/day and 7.31 tons/yr.
	OAC rule 3745-21-07(G)(2)	See Sections A.I.2.a through A.I.2.d below. The requirements established pursuant to this rule are equivalent to the requirements of OAC rule 3745-31-05(A)(3).

**2. Additional Terms and Conditions**

- a. The OC content of the ink shall not exceed 5%, by weight.
- b. The OC content of the fountain solution shall not exceed 2.8 pounds per gallon.
- c. The OC content of the blanket wash components shall not exceed 6.96 pounds per gallon.
- d. The OC content of the isopropyl alcohol (IPA) shall not exceed 6.6 pounds per gallon.

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**II. Operational Restrictions**

1. None

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

1. The permittee shall maintain the following information on a daily basis for the coating operation:
  - a. the company identification for each coating, ink and cleanup material employed;
  - b. the number of gallons of each coating, ink and cleanup material employed;
  - c. the OC content of each coating, ink and cleanup material, in pounds per gallon;
  - d. the total OC emission rate for all coatings, inks and cleanup materials (i.e., the summation of (b) \* (c), for all coatings, inks and cleanup materials) in pounds per day;
  - e. the total number of hours the emissions unit was in operation; and
  - f. the average hourly OC emission rate for all coatings, inks and cleanup materials, i.e., (d)/(e), in pounds per hour (average).
2. The permittee shall maintain records of the annual OC emission rate calculated as the sum of the daily OC emission rates from Section A.III.1.d for the calendar year.

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**IV. Reporting Requirements**

1. The permittee shall submit quarterly deviation (excursion) reports that include the following information:

- a. an identification of each day during which the average hourly OC emissions from the coatings, inks and cleanup materials exceeded 8 pounds per hour;
- b. an identification for each day during which the OC emissions from the coatings, inks and cleanup materials exceeded 40 pounds per day.
- 2. The permittee shall submit quarterly deviation (excursion) reports that identify any exceedance of the OC content limitations specified in Sections A.I.2.a through A.I.2.d.
- 3. The quarterly deviations reports shall be submitted in accordance with General Term and Condition A.1.c.ii of this permit.
- 4. The permittee shall also submit annual reports that specify the total OC emissions for this emissions unit for the previous calendar year. These reports shall be submitted by January 31 of each year.

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V. **Testing Requirements**

- 1. Compliance with the emission limitations in Section A.I. of these terms and conditions shall be determined in accordance with the following methods:
  - a. Emission Limitations:  
OC emissions shall not exceed 8 pounds per hour and 40 pounds per day.  
  
Applicable Compliance Method:  
The record keeping requirements in Section A.III of this permit may be used to determine compliance with the above limitations.  
  
If required, the permittee shall demonstrate compliance with the pounds per hour emission limitation through emission tests performed in accordance with 40 CFR Part 60, Appendix A, Methods 1 through 4 and 18.
  - b. Emission Limitation:  
OC emissions shall not exceed 7.31 tons per year.  
  
Applicable Compliance Method:  
The record keeping requirements in Section A.III of this permit may be used to determine compliance with the above limitation.
- 2. Formulation data or USEPA Method 24 shall be used to determine the organic compound contents of the coatings, inks and cleanup materials.

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VI. **Miscellaneous Requirements**

- 1. None

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Facility ID: 0125042608 Emissions Unit ID: K001 Issuance type: Title V Final 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>
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- offset, lithographic 5-color printing press      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. The permit to install for this emissions unit (K001) was evaluated based on the actual materials (typically coatings and cleanup materials) and the design parameters of the emissions unit's exhaust system, as specified by the permittee in the permit to install application. The Ohio EPA's "Review of New Sources of Air Toxic Emissions" policy ("Air Toxic Policy") was applied for each pollutant emitted by this emissions unit using data from the permit to install application and the SCREEN 3.0 model (or other Ohio EPA approved model). The predicted 1-hour maximum ground-level concentration from the use of the SCREEN 3.0 model was compared to the Maximum Acceptable Ground-Level Concentration (MAGLC). The following summarizes the results of the modeling for the "worst case" pollutant(s):

Pollutant: isopropyl alcohol (IPA)

TLV (mg/m3): 983

Maximum Hourly Emission Rate (lbs/hr): 8 lbs/hr

Predicted 1-Hour Maximum Ground-Level Concentration (ug/m3): 2,965

MAGLC (ug/m3): 23,404.8

2. Physical changes to or changes in the method of operation of the emissions unit after its installation or modification could affect the parameters used to determine whether or not the "Air Toxic Policy" is satisfied. Consequently, prior to making a change that could impact such parameters, the permittee shall conduct an evaluation to determine that the "Air Toxic Policy" will still be satisfied. If, upon evaluation, the permittee determines that the "Air Toxic Policy" will not be satisfied, the permittee will not make the change. Changes that can affect the parameters used in applying the "Air Toxic Policy" include the following:

a. changes in the composition of the materials used (typically for coatings or cleanup materials), or the use of new materials, that would result in the emission of a compound with a lower Threshold Limit Value (TLV), as indicated in the most recent version of the handbook entitled "American Conference of Governmental Industrial Hygienists (ACGIH)," than the lowest TLV value previously modeled;

b. changes in the composition of the materials, or use of new materials, that would result in an increase in emissions of any pollutant with a listed TLV that was proposed in the application and modeled; and

c. physical changes to the emissions unit or its exhaust parameters (e.g., increased/ decreased exhaust flow, changes in stack height, changes in stack diameter, etc.).

3. If the permittee determines that the "Air Toxic Policy" will be satisfied for the above changes, the Ohio EPA will not consider the change(s) to be a "modification" under OAC rule 3745-31-01(VV)(1)(a)(ii), and a modification of the existing permit to install will not be required. If the change(s) is (are) defined as a modification under other provisions of the modification definition (other than (VV)(1)(a)(ii)), then the permittee shall obtain a final permit to install prior to the change.

The permittee shall collect, record, and retain the following information when it conducts evaluations to determine that the changed emissions unit will still satisfy the "Air Toxic Policy:"

a. a description of the parameters changed (composition of materials, new pollutants emitted, change in stack/exhaust parameters, etc.);

b. documentation of its evaluation and determination that the changed emissions unit still satisfies the "Air Toxic Policy"; and

c. where computer modeling is performed, a copy of the resulting computer model runs that show the results of the application of the "Air Toxic Policy" for the change.

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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: 0125042608 Emissions Unit ID: K002 Issuance type: Title V Final 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>
offset, lithographic 6-color printing press	OAC rule 3745-31-05(A)(3) (PTI 01-8361)	Organic compound (OC) emissions shall not exceed 8 lbs/hr, 40 lbs/day and 7.31 tons/yr.
	OAC rule 3745-21-07(G)(2)	See Sections A.I.2.a through A.I.2.d below. The requirements established pursuant to this rule are equivalent to the requirements of OAC rule 3745-31-05(A)(3).

2. **Additional Terms and Conditions**

- a. The OC content of the ink shall not exceed 5%, by weight.
- b. The OC content of the fountain solution shall not exceed 2.8 pounds per gallon.
- c. The OC content of the blanket wash components shall not exceed 6.96 pounds per gallon.
- d. The OC content of the isopropyl alcohol (IPA) shall not exceed 6.6 pounds per gallon.

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II. **Operational Restrictions**

- 1. None

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

- 1. The permittee shall maintain the following information on a daily basis for the coating operation:
  - a. the company identification for each coating, ink and cleanup material employed;
  - b. the number of gallons of each coating, ink and cleanup material employed;
  - c. the OC content of each coating, ink and cleanup material, in pounds per gallon;
  - d. the total OC emission rate for all coatings, inks and cleanup materials (i.e., the summation of (b) \* (c), for all coatings, inks and cleanup materials) in pounds per day;

- e. the total number of hours the emissions unit was in operation; and
  - f. the average hourly OC emission rate for all coatings, inks and cleanup materials, i.e., (d)/(e), in pounds per hour (average).
2. The permittee shall maintain records of the annual OC emission rate calculated as the sum of the daily OC emission rates from Section A.III.1.d for the calendar year.

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**IV. Reporting Requirements**

1. The permittee shall submit quarterly deviation (excursion) reports that include the following information:
- a. an identification of each day during which the average hourly OC emissions from the coatings, inks and cleanup materials exceeded 8 pounds per hour;
  - b. an identification for each day during which the OC emissions from the coatings, inks and cleanup materials exceeded 40 pounds per day.
2. The permittee shall submit quarterly deviation (excursion) reports that identify any exceedance of the OC content limitations specified in Sections A.I.2.a through A.I.2.d.
3. The quarterly deviations reports shall be submitted in accordance with General Term and Condition A.1.c.ii of this permit.
4. The permittee shall also submit annual reports that specify the total OC emissions for this emissions unit for the previous calendar year. These reports shall be submitted by January 31 of each year.

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**V. Testing Requirements**

1. Compliance with the emission limitations in Section A.I. of these terms and conditions shall be determined in accordance with the following methods:
- a. Emission Limitations:  
OC emissions shall not exceed 8 pounds per hour and 40 pounds per day.  
  
Applicable Compliance Method:  
The record keeping requirements in Section A.III of this permit may be used to determine compliance with the above limitations.  
  
If required, the permittee shall demonstrate compliance with the pounds per hour emission limitation through emission tests performed in accordance with 40 CFR Part 60, Appendix A, Methods 1 through 4 and 18.
  - b. Emission Limitation:  
OC emissions shall not exceed 7.31 tons per year.  
  
Applicable Compliance Method:  
The record keeping requirements in Section A.III of this permit may be used to determine compliance with the above limitation.
2. Formulation data or USEPA Method 24 shall be used to determine the organic compound contents of the coatings, inks and cleanup materials.

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**VI. Miscellaneous Requirements**

1. None

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Facility ID: 0125042608 Emissions Unit ID: K002 Issuance type: Title V Final 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>
offset, lithographic 6-color printing press	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. The permit to install for this emissions unit (K002) was evaluated based on the actual materials (typically coatings and cleanup materials) and the design parameters of the emissions unit's exhaust system, as specified by the permittee in the permit to install application. The Ohio EPA's "Review of New Sources of Air Toxic Emissions" policy ("Air Toxic Policy") was applied for each pollutant emitted by this emissions unit using data from the permit to install application and the SCREEN 3.0 model (or other Ohio EPA approved model). The predicted 1-hour maximum ground-level concentration from the use of the SCREEN 3.0 model was compared to the Maximum Acceptable Ground-Level Concentration (MAGLC). The following summarizes the results of the modeling for the "worst case" pollutant(s):

Pollutant: isopropyl alcohol (IPA)

TLV (mg/m3): 983

Maximum Hourly Emission Rate (lbs/hr): 8 lbs/hr

Predicted 1-Hour Maximum Ground-Level Concentration (ug/m3): 2,965

MAGLC (ug/m3): 23,404.8

2. Physical changes to or changes in the method of operation of the emissions unit after its installation or modification could affect the parameters used to determine whether or not the "Air Toxic Policy" is satisfied. Consequently, prior to making a change that could impact such parameters, the permittee shall conduct an evaluation to determine that the "Air Toxic Policy" will still be satisfied. If, upon evaluation, the permittee determines that the "Air Toxic Policy" will not be satisfied, the permittee will not make the change. Changes that can affect the parameters used in applying the "Air Toxic Policy" include the following:

a. changes in the composition of the materials used (typically for coatings or cleanup materials), or the use of new materials, that would result in the emission of a compound with a lower Threshold Limit Value (TLV), as indicated in the most recent version of the handbook entitled "American Conference of Governmental Industrial Hygienists (ACGIH)," than the lowest TLV value previously modeled;

b. changes in the composition of the materials, or use of new materials, that would result in an increase in emissions of any pollutant with a listed TLV that was proposed in the application and modeled; and

c. physical changes to the emissions unit or its exhaust parameters (e.g., increased/ decreased exhaust flow, changes in stack height, changes in stack diameter, etc.).

3. If the permittee determines that the "Air Toxic Policy" will be satisfied for the above changes, the Ohio EPA will not consider the change(s) to be a "modification" under OAC rule 3745-31- 01(VV)(1)(a)(ii), and a modification of the existing permit to install will not be required. If the change(s) is (are) defined as a modification under other provisions of the modification definition (other than (VV)(1)(a)(ii)), then the permittee shall obtain a final permit to install prior to the change.

The permittee shall collect, record, and retain the following information when it conducts evaluations to determine that the changed emissions unit will still satisfy the "Air Toxic Policy:"

a. a description of the parameters changed (composition of materials, new pollutants emitted, change in stack/exhaust parameters, etc.);

b. documentation of its evaluation and determination that the changed emissions unit still satisfies the "Air Toxic Policy"; and

c. where computer modeling is performed, a copy of the resulting computer model runs that show the results of the application of the "Air Toxic Policy" for the change.

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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: 0125042608 Emissions Unit ID: K003 Issuance type: Title V Final 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>
offset, lithographic 2-color printing press	OAC rule 3745-31-05(A)(3) (PTI 01-8361)	Organic compound (OC) emissions shall not exceed 8 lbs/hr, 40 lbs/day and 4.96 tons/yr.
	OAC rule 3745-21-07(G)(2)	See Sections A.I.2.a through A.I.2.c below. The requirements established pursuant to this rule are equivalent to the requirements of OAC rule 3745-31-05(A)(3).

**2. Additional Terms and Conditions**

- a. The OC content of the ink shall not exceed 5%, by weight.
- b. The OC content of the fountain solution shall not exceed 2.8 pounds per gallon.
- c. The OC content of the blanket wash components shall not exceed 6.96 pounds per gallon.

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**II. Operational Restrictions**

- 1. None

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

1. The permittee shall maintain the following information on a daily basis for the coating operation:
  - a. the company identification for each coating, ink and cleanup material employed;
  - b. the number of gallons of each coating, ink and cleanup material employed;
  - c. the OC content of each coating, ink and cleanup material, in pounds per gallon;
  - d. the total OC emission rate for all coatings, inks and cleanup materials (i.e., the summation of (b) \* (c), for all coatings, inks and cleanup materials) in pounds per day;
  - e. the total number of hours the emissions unit was in operation; and
  - f. the average hourly OC emission rate for all coatings, inks and cleanup materials, i.e., (d)/(e), in pounds per hour (average).
2. The permittee shall maintain records of the annual OC emission rate calculated as the sum of the daily OC emission rates from Section A.III.1.d for the calendar year.

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#### IV. Reporting Requirements

1. The permittee shall submit quarterly deviation (excursion) reports that include the following information:
  - a. an identification of each day during which the average hourly OC emissions from the coatings, inks and cleanup materials exceeded 8 pounds per hour;
  - b. an identification for each day during which the OC emissions from the coatings, inks and cleanup materials exceeded 40 pounds per day.
2. The permittee shall submit quarterly deviation (excursion) reports that identify any exceedance of the OC content limitations specified in Sections A.I.2.a through A.I.2.c.
3. The quarterly deviations reports shall be submitted in accordance with General Term and Condition A.1.c.ii of this permit.
4. The permittee shall also submit annual reports that specify the total OC emissions for this emissions unit for the previous calendar year. These reports shall be submitted by January 31 of each year.

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#### V. Testing Requirements

1. Compliance with the emission limitations in Section A.I. of these terms and conditions shall be determined in accordance with the following methods:
  - a. Emission Limitations:  
OC emissions shall not exceed 8 pounds per hour and 40 pounds per day.  
  
Applicable Compliance Method:  
The record keeping requirements in Section A.III of this permit may be used to determine compliance with the above limitations.  
  
If required, the permittee shall demonstrate compliance with the pounds per hour emission limitation through emission tests performed in accordance with 40 CFR Part 60, Appendix A, Methods 1 through 4 and 18.
  - b. Emission Limitation:  
OC emissions shall not exceed 4.96 tons per year.  
  
Applicable Compliance Method:  
The record keeping requirements in Section A.III of this permit may be used to determine compliance with the above limitation.
2. Formulation data or USEPA Method 24 shall be used to determine the organic compound contents of the coatings, inks and cleanup materials.

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#### VI. Miscellaneous Requirements

1. None

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Facility ID: 0125042608 Emissions Unit ID: K003 Issuance type: Title V Final 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>
offset, lithographic 2-color printing press	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. The permit to install for this emissions unit (K003) was evaluated based on the actual materials (typically coatings and cleanup materials) and the design parameters of the emissions unit's exhaust system, as specified by the permittee in the permit to install application. The Ohio EPA's "Review of New Sources of Air Toxic Emissions" policy ("Air Toxic Policy") was applied for each pollutant emitted by this emissions unit using data from the permit to install application and the SCREEN 3.0 model (or other Ohio EPA approved model). The predicted 1-hour maximum ground-level concentration from the use of the SCREEN 3.0 model was compared to the Maximum Acceptable Ground-Level Concentration (MAGLC). The following summarizes the results of the modeling for the "worst case" pollutant(s):

Pollutant: stoddard solvent (mineral spirits, a component of Presspro)

TLV (mg/m3): 573

Maximum Hourly Emission Rate (lbs/hr): 8 lbs/hr

Predicted 1-Hour Maximum Ground-Level Concentration (ug/m3): 2,965

MAGLC (ug/m3): 13,633.3

2. Physical changes to or changes in the method of operation of the emissions unit after its installation or modification could affect the parameters used to determine whether or not the "Air Toxic Policy" is satisfied. Consequently, prior to making a change that could impact such parameters, the permittee shall conduct an evaluation to determine that the "Air Toxic Policy" will still be still satisfied. If, upon evaluation, the permittee determines that the "Air Toxic Policy" will not be satisfied, the permittee will not make the change. Changes that can affect the parameters used in applying the "Air Toxic Policy" include the following:

a. changes in the composition of the materials used (typically for coatings or cleanup materials), or the use of new materials, that would result in the emission of a compound with a lower Threshold Limit Value (TLV), as indicated in the most recent version of the handbook entitled "American Conference of Governmental Industrial Hygienists (ACGIH)," than the lowest TLV value previously modeled;

b. changes in the composition of the materials, or use of new materials, that would result in an increase in emissions of any pollutant with a listed TLV that was proposed in the application and modeled; and

c. physical changes to the emissions unit or its exhaust parameters (e.g., increased/ decreased exhaust flow, changes in stack height, changes in stack diameter, etc.).

3. If the permittee determines that the "Air Toxic Policy" will be satisfied for the above changes, the Ohio EPA will not consider the change(s) to be a "modification" under OAC rule 3745-31- 01(VV)(1)(a)(ii), and a modification of the existing permit to install will not be required. If the change(s) is (are) defined as a modification under other provisions of the modification definition (other than (VV)(1)(a)(ii)), then the permittee shall obtain a final permit to install prior to the change.

The permittee shall collect, record, and retain the following information when it conducts evaluations to determine that the changed emissions unit will still satisfy the "Air Toxic Policy:"

- a. a description of the parameters changed (composition of materials, new pollutants emitted, change in stack/exhaust parameters, etc.);
- b. documentation of its evaluation and determination that the changed emissions unit still satisfies the "Air Toxic Policy"; and
- c. where computer modeling is performed, a copy of the resulting computer model runs that show the results of the application of the "Air Toxic Policy" for the change.

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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: 0125042608 Emissions Unit ID: P001 Issuance type: Title V Final 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>
ethylene oxide sterilizer (ETO)	OAC rule 3745-31-05(A)(3) (PTI 01-08310)	Ethylene oxide emissions shall not exceed 1.34 lbs/hr and 0.25 ton/yr.  HCFC emissions shall not exceed 12.06 lbs/hr and 2.2 tons/yr.
		See A.II.1 through A.II.3 below.

**2. Additional Terms and Conditions**

- (a) None

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**II. Operational Restrictions**

- 1. This emissions unit shall not exceed one (1) sterilization cycle per day.

2. The permittee shall not use a sterilant gas that contains greater than 10% ethylene oxide.
3. This emissions unit shall not release fugitive emissions of ethylene oxide.

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

1. The permittee shall maintain daily records of the following information for this emissions unit:
  - a. the number of operating cycles;
  - b. the ethylene oxide content of the sterilant gas if it exceeds 10%;
  - c. the release of fugitive ethylene oxide emissions; and
  - d. all supporting analyses and computations.

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**IV. Reporting Requirements**

1. The permittee shall submit deviation (excursion) reports that identify the following:
  - a. each day during which more than one sterilization cycle took place;
  - b. each day during which a sterilant gas was used with greater than 10% ethylene oxide; and
  - c. each day during which fugitive ethylene oxide emissions were released.

Each report shall be submitted within 30 days of the date the deviation occurred.

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**V. Testing Requirements**

1. Compliance with the emission limitations in Section A.I. of these terms and conditions shall be determined in accordance with the following methods:
  - a. Emission Limitation:  
Ethylene oxide emissions shall not exceed 1.34 lbs/hr.

**Applicable Compliance Method:**

This emission limitation was established by multiplying the maximum amount of sterilization solution used per operating cycle (13.4 lbs), by the restricted ethylene oxide content of the solution (10%), by the restricted number of operating cycles (1). Since each operating cycle yields one ventilation period that consumes less than one (1) hour, the emissions unit will emit no more than 1.34 lbs/hr.

Therefore, compliance with this emission limitation may be demonstrated by restricting the ethylene oxide content of the solution to no more than 10% and by restricting the emissions unit to no more than one (1) cycle per day.

If required, the permittee shall demonstrate compliance with this emission limitation through emission tests performed in accordance with U.S. EPA approved methods.

- b. Emission Limitation:  
Ethylene oxide emissions shall not exceed 0.25 ton/yr.

**Applicable Compliance Method:**

Since each sterilization operating cycle yields one ventilation period that consumes less than one (1) hour and the emissions unit is limited to no more than one (1) operating cycle per day, lbs of ethylene oxide emitted/hr equals lbs of ethylene oxide emitted/day.

This emission limitation was established by multiplying the maximum allowable daily ethylene oxide emission rate (1.34 lbs/day) by 365 days/yr, and dividing by 2000 lbs/ton.

Therefore, compliance with this emission limitation may be assumed provided that the permittee complies with the operational restrictions for this emissions unit.

- c. Emission Limitation:  
HCFC emissions shall not exceed 12.06 lbs/hr.

**Applicable Compliance Method:**

This emission limitation was established by multiplying the maximum amount of sterilization solution used per operating cycle (13.4 lbs), by the HCFC content of the solution (90%), by the restricted number of operating cycles (1). Each operating cycle yields one ventilation period that consumes less than one (1) hour.

If required, the permittee shall demonstrate compliance with this emission limitation through emission

tests performed in accordance with U.S. EPA approved methods.

- d. Emission Limitation:  
HCFC emissions shall not exceed 2.2 tons/yr.

Applicable Compliance Method:

Since each sterilization operating cycle yields one ventilation period that consumes less than one (1) hour and the emissions unit is limited to no more than one (1) operating cycle per day, lbs of HCFC emitted/hr equals lbs of HCFC emitted/day.

This emission limitation was established by multiplying the daily HCFC emission rate (12.06 lbs/day) by 365 days/yr, and dividing by 2000 lbs/ton.

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VI. **Miscellaneous Requirements**

- 1. None

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Facility ID: 0125042608 Emissions Unit ID: P001 Issuance type: Title V Final 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>
---	--------------------------------------	--

- |   |  |  |
|---|--|--|
| ethylene oxide sterilizer (ETO)           |  |  |
| <b>2. Additional Terms and Conditions</b> |  |  |
| 1. None                                   |  |  |

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II. **Operational Restrictions**

- 1. None

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

- 1. The permit to install for this emissions unit (P001) was evaluated based on the actual materials (typically coatings and cleanup materials) and the design parameters of the emissions unit's exhaust system, as specified by the permittee in the permit to install application. The Ohio EPA's "Review of New Sources of Air Toxic Emissions" policy ("Air Toxic Policy") was applied for each pollutant emitted by this emissions unit using data from the permit to install application and the SCREEN 3.0 model (or other Ohio EPA approved model). The predicted 1-hour maximum ground-level concentration from the use of the SCREEN 3.0 model was compared to the Maximum Acceptable Ground-Level Concentration (MAGLC). The following summarizes the results of the modeling for the "worst case" pollutant(s):

Pollutant: Chlorodifluoro methane (HCFC)  
 TLV (mg/m3): 3536.6  
 Maximum Hourly Emission Rate (lbs/hr): 12.06  
 Predicted 1-Hour Maximum Ground-Level Concentration (ug/m3): 158  
 MAGLC (ug/m3): 353.6

Pollutant: Ethylene oxide  
 TLV (mg/m3): 180  
 Maximum Hourly Emission Rate (lbs/hr): 1.34  
 Predicted 1-Hour Maximum Ground-Level Concentration (ug/m3): 158  
 MAGLC (ug/m3): 180

2. Physical changes to or changes in the method of operation of the emissions unit after its installation or modification could affect the parameters used to determine whether or not the "Air Toxic Policy" is satisfied. Consequently, prior to making a change that could impact such parameters, the permittee shall conduct an evaluation to determine that the "Air Toxic Policy" will still be satisfied. If, upon evaluation, the permittee determines that the "Air Toxic Policy" will not be satisfied, the permittee will not make the change. Changes that can affect the parameters used in applying the "Air Toxic Policy" include the following:

a. changes in the composition of the materials used (typically for coatings or cleanup materials), or the use of new materials, that would result in the emission of a compound with a lower Threshold Limit Value (TLV), as indicated in the most recent version of the handbook entitled "American Conference of Governmental Industrial Hygienists (ACGIH)," than the lowest TLV value previously modeled;

b. changes in the composition of the materials, or use of new materials, that would result in an increase in emissions of any pollutant with a listed TLV that was proposed in the application and modeled; and

c. physical changes to the emissions unit or its exhaust parameters (e.g., increased/ decreased exhaust flow, changes in stack height, changes in stack diameter, etc.).

3. If the permittee determines that the "Air Toxic Policy" will be satisfied for the above changes, the Ohio EPA will not consider the change(s) to be a "modification" under OAC rule 3745-31-01(VV)(1)(a)(ii), and a modification of the existing permit to install will not be required. If the change(s) is (are) defined as a modification under other provisions of the modification definition (other than (VV)(1)(a)(ii)), then the permittee shall obtain a final permit to install prior to the change.

The permittee shall collect, record, and retain the following information when it conducts evaluations to determine that the changed emissions unit will still satisfy the "Air Toxic Policy:"

a. a description of the parameters changed (composition of materials, new pollutants emitted, change in stack/exhaust parameters, etc.);

b. documentation of its evaluation and determination that the changed emissions unit still satisfies the "Air Toxic Policy"; and

c. where computer modeling is performed, a copy of the resulting computer model runs that show the results of the application of the "Air Toxic Policy" for the change.

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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: 0125042608 Emissions Unit ID: P901 Issuance type: Title V Final 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>
McCracken coal handling - fully enclosed loading, unloading and conveying operations controlled with a fabric filter; fully enclosed coal storage piles	OAC rule 3745-31-05(A)(3) (PTI 01-572)	Visible particulate emissions from any stack shall not exceed 20% opacity, except for a period of not more than 3 minutes in any 60 minutes when opacity of up to and including 60% is permitted.
	OAC rule 3745-17-11(B)(1)	The requirements of this rule also include compliance with the requirements of OAC rules 3745-17-11(B)(1), 3745-17-07(B)(1), and 3745-17-08(B). 5.0 lbs/hr of particulate emissions
	OAC rule 3745-17-07(A)	The emission limitations specified by this rule are less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).
	OAC rule 3745-17-07(B)(1)	Visible fugitive particulate emissions shall not exceed 20% opacity as a 3-minute average.
	OAC rule 3745-17-08(B)	See A.II.1 through A.II.3 below.

**2. Additional Terms and Conditions**

- (a) None

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**II. Operational Restrictions**

1. The permittee shall maintain the enclosures for the coal unloading, coal crushing, coal sizing and coal conveying operations to minimize or eliminate visible emissions of fugitive dust.
2. The permittee shall spray the coal storage piles with a surfactant as needed to minimize or eliminate visible emissions of fugitive dust.
3. The permittee shall employ telescoping chutes to minimize the free-fall of coal loaded onto the enclosed coal storage piles if abnormal visible fugitive particulate emissions from the building containing this emissions unit are observed based on the monitoring in Section A.III.2.

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

1. The permittee shall perform daily checks, when the emissions unit is in operation and when the weather conditions allow, for any visible particulate emissions from the fabric filter serving this emissions unit. The presence or absence of any visible emissions shall be noted in an operations log. If visible emissions are observed, the permittee shall also note the following in the operations log:
  - a. the color of the emissions;
  - b. whether the emissions are representative of normal operations;
  - c. if the emissions are not representative of normal operations, the cause of the abnormal emissions;
  - d. the total duration of any abnormal visible emission incident; and
  - e. any corrective actions taken to eliminate the abnormal visible emissions.
2. The permittee shall perform daily checks, when the emissions unit is in operation and when the weather conditions allow, for any visible fugitive particulate emissions from the building containing this emissions unit and the associated roadways. The presence or absence of any visible fugitive emissions shall be noted in an operations log. If visible fugitive emissions are observed, the permittee shall also note the following in the operations log:
  - a. the color of the emissions;
  - b. whether the emissions are representative of normal operations;
  - c. if the emissions are not representative of normal operations, the cause of the abnormal emissions;
  - d. the total duration of any abnormal visible emission incident; and
  - e. any corrective actions taken to eliminate the abnormal visible emissions.

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**IV. Reporting Requirements**

1. The permittee shall submit semiannual written reports that (a) identify all days during which abnormal visible emissions were observed from the fabric filter serving this emissions unit and (b) describe any corrective actions taken to eliminate the abnormal visible emissions. These reports shall be submitted to the Director (the Ohio EPA, Central District Office) by January 31 and July 31 of each year and shall cover the previous

6-month period.

2. The permittee shall submit semiannual written reports that (a) identify all days during which abnormal visible emissions were observed from the non-stack egress points from the building housing this emissions unit or the associated roadways and (b) describe any corrective actions taken to eliminate the abnormal visible emissions. These reports shall be submitted to the Director (the Ohio EPA, Central District Office) by January 31 and July 31 of each year and shall cover the previous 6-month period.

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V. **Testing Requirements**

1. Compliance with the emission limitations in Section A.I. of these terms and conditions shall be determined in accordance with the following methods:
  - a. **Emission Limitation:**  
 Visible particulate emissions from any stack shall not exceed 20% opacity, except for a period of not more than 3 minutes in any 60 minutes when opacity of up to and including 60% opacity is permitted.  
  
**Applicable Compliance Method:**  
 If required, compliance shall be determined through visible emissions observations performed in accordance with 40 CFR Part 60, Appendix A, Method 9.
  - b. **Emission Limitation:**  
 Visible fugitive particulate emissions shall not exceed 20% opacity as a 3-minute average.  
  
**Applicable Compliance Method:**  
 If required, compliance shall be determined through visible emissions observations performed in accordance with 40 CFR Part 60, Appendix A, Method 9 and the procedures specified in OAC rule 3745-17-03(B)(3).
  - c. **Emission Limitation:**  
 5.0 lbs/hr of particulate emissions  
  
**Applicable Compliance Method:**  
 If required, the permittee shall demonstrate compliance with this emission limitation through emission testing performed in accordance with Methods 1 through 5 of 40 CFR Part 60, Appendix A.

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VI. **Miscellaneous Requirements**

1. None

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Facility ID: 0125042608 Emissions Unit ID: P901 Issuance type: Title V Final 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>
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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: 0125042608 Emissions Unit ID: P902 Issuance type: Title V Final 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>
McCracken ash unloading, ash silo with fabric filter and lime silo with fabric filter	OAC rule 3745-31-05(A)(3) (PTI 01-572)	Visible particulate emissions from any stack shall not exceed 20% opacity, except for a period of not more than 3 minutes in any 60 minutes when opacity of up to and including 60% is permitted.
	OAC rule 3745-17-11(B)(1)	The requirements of this rule also include compliance with the requirements of OAC rules 3745-17-11(B)(1), 3745-17-07(B)(1), and 3745-17-08(B).
	OAC rule 3745-17-07(A)	5.0 lbs/hr of particulate emissions
	OAC rule 3745-17-07(B)(1)	The emission limitations specified by this rule are less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).
	OAC rule 3745-17-08(B)	Visible fugitive particulate emissions shall not exceed 20% opacity as a 3-minute average. See A.II.1 through A.II.3 below.

- 2. **Additional Terms and Conditions**

- (a) None

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**II. Operational Restrictions**

1. The permittee shall cover all trucks utilized for ash disposal.
2. The permittee shall not stockpile refuse at the facility.

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

1. The permittee shall perform daily checks, when the emissions unit is in operation and when the weather conditions allow, for any visible particulate emissions from the fabric filters serving this emissions unit. The presence or absence of any visible emissions shall be noted in an operations log. If visible emissions are observed, the permittee shall also note the following in the operations log:
  - a. the color of the emissions;
  - b. whether the emissions are representative of normal operations;
  - c. if the emissions are not representative of normal operations, the cause of the abnormal emissions;
  - d. the total duration of any abnormal visible emission incident; and
  - e. any corrective actions taken to eliminate the abnormal visible emissions.
2. The permittee shall perform daily checks, when the emissions unit is in operation and when the weather conditions allow, for any visible fugitive particulate emissions from the building containing this emissions unit and the associated roadways. The presence or absence of any visible fugitive emissions shall be noted in an operations log. If visible fugitive emissions are observed, the permittee shall also note the following in the operations log:
  - a. the color of the emissions;
  - b. whether the emissions are representative of normal operations;
  - c. if the emissions are not representative of normal operations, the cause of the abnormal emissions;
  - d. the total duration of any abnormal visible emission incident; and
  - e. any corrective actions taken to eliminate the abnormal visible emissions.

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**IV. Reporting Requirements**

1. The permittee shall submit semiannual written reports that (a) identify all days during which abnormal visible emissions were observed from the fabric filters serving this emissions unit and (b) describe any corrective actions taken to eliminate the abnormal visible emissions. These reports shall be submitted to the Director (the Ohio EPA, Central District Office) by January 31 and July 31 of each year and shall cover the previous 6-month period.
2. The permittee shall submit semiannual written reports that (a) identify all days during which abnormal visible emissions were observed from the non-stack egress points from the building housing this emissions unit or the associated roadways and (b) describe any corrective actions taken to eliminate the abnormal visible emissions. These reports shall be submitted to the Director (the Ohio EPA, Central District Office) by January 31 and July 31 of each year and shall cover the previous 6-month period.

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**V. Testing Requirements**

1. Compliance with the emission limitations in Section A.I. of these terms and conditions shall be determined in accordance with the following methods:
  - a. Emission Limitation:

Visible particulate emissions from any stack shall not exceed 20% opacity, except for a period of not more than 3 minutes in any 60 minutes when opacity of up to and including 60% opacity is permitted.

Applicable Compliance Method:  
If required, compliance shall be determined through visible emissions observations performed in accordance with 40 CFR Part 60, Appendix A, Method 9.
  - b. Emission Limitation:

Visible fugitive particulate emissions shall not exceed 20% opacity as a 3-minute average.

Applicable Compliance Method:  
If required, compliance shall be determined through visible emissions observations performed in accordance with 40 CFR Part 60, Appendix A, Method 9 and the procedures specified in OAC rule 3745-17-03(B)(3).
  - c. Emission Limitation:

5.0 lbs/hr of particulate emissions

Applicable Compliance Method:

If required, the permittee shall demonstrate compliance with this emission limitation through emission testing performed in accordance with Methods 1 through 5 of 40 CFR Part 60, Appendix A.

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VI. **Miscellaneous Requirements**

1. None

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Facility ID: 0125042608 Emissions Unit ID: P902 Issuance type: Title V Final 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>
2. <b>Additional Terms and Conditions</b>			
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: 0125042608 Emissions Unit ID: R001 Issuance type: Title V Final 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>
wood and plastic furniture maintenance spray booth - Booth #5B	OAC rule 3745-21-07(G)(2)	Organic compound emissions shall not exceed 8 lbs/hr and 40 lbs/day.
	OAC rule 3745-17-07(A)	Visible particulate emissions shall not exceed 20% opacity as a 6-minute average, except as provided by rule.
	OAC rule 3745-17-11(B)(1)	Particulate emissions shall not exceed 0.551 pound per hour.

2. Additional Terms and Conditions

- (a) None

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II. Operational Restrictions

1. The permittee shall operate the dry filtration system whenever this emissions unit is in operation.

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III. Monitoring and/or Record Keeping Requirements

1. The permittee shall collect and record the following information for each day for the coating operation:
  - a. the company identification for each coating and cleanup material employed;
  - b. the company identification for each photochemically reactive cleanup material employed;
  - c. the number of gallons of each coating and cleanup material employed;
  - d. the organic compound content of each coating and cleanup material, in pounds per gallon;
  - e. the total organic compound emission rate for all coatings and cleanup materials, in pounds per day;
  - f. the total number of hours the emissions unit was in operation;
  - g. the average hourly organic compound emission rate for all coatings and cleanup materials, i.e., (d)/(e), in pounds per hour (average);
  - h. if the total organic compound emission rate for all coatings and cleanup materials exceeds 40 pounds per day, as found in (g), then the permittee shall record the organic compound emission rate for all coatings and photochemically reactive cleanup materials, in pounds per day; and
  - i. if the average hourly organic compound emission rate for all coatings and cleanup materials exceeds 8 pounds per hour, as found in (e), then the permittee shall record the average hourly organic compound emission rate for all coatings and photochemically reactive cleanup materials, in pounds per hour (average).

[Note: The coating information must be for the coatings as employed, including any thinning solvents added at the emissions unit. Also, the definition of "photochemically reactive material" is based upon OAC rule 3745-21-01(C)(5).]

2. The permittee shall maintain daily records that document any time periods when the dry filtration system was not in service when the emissions unit was in operation.

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#### IV. Reporting Requirements

1. The permittee shall submit quarterly deviation (excursion) reports that include the following information:
  - a. an identification of each hour during which the organic compound emissions from the coatings and photochemically reactive cleanup materials exceeded 8 lbs/hr, and the actual organic compound emissions for each such hour; and
  - b. an identification of each day during which the organic compound emissions from the coatings and photochemically reactive cleanup materials exceeded 40 lbs/day, and the actual organic compound emissions for each such day.

The quarterly deviation reports shall be submitted in accordance with General Term and Condition A.1.c.ii of this permit.
2. The permittee shall notify the Director (the appropriate District Office or local air agency) in writing of any daily record showing that the dry filtration system was not in service when the emissions unit was in operation. The notification shall include a copy of such record and shall be sent to the Director (the appropriate District Office or local air agency) within 30 days after the event occurs.

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#### V. Testing Requirements

1. Compliance with the emission limitations in Section A.I. of these terms and conditions shall be determined in accordance with the following methods:
  - a. Emission Limitations:  
Organic compound emissions shall not exceed 8 lbs/hr and 40 lbs/day.  
  
Applicable Compliance Method:  
Compliance may be demonstrated through the record keeping in Section A.III.1.  
  
If required, the permittee shall demonstrate compliance with the hourly emission limitation through emission tests performed in accordance with 40 CFR Part 60, Appendix A, Methods 1 through 4 and 18 or 25, as appropriate.
  - b. Emission Limitation:  
Visible particulate emissions shall not exceed 20% opacity as a 6-minute average, except as provided by rule.  
  
Applicable Compliance Method:  
Compliance shall be determined through visible emissions observations performed in accordance with 40 CFR Part 60, Appendix A, Method 9 and the procedures specified in OAC rule 3745-17-03(B)(1).
  - c. Emission Limitation:  
Particulate emissions shall not exceed 0.551 pound per hour.  
  
Applicable Compliance Method:  
To determine the actual worst case emission rate for particulates, the following equation may be used:  
  
$$E = (M) * (1-TE) * (1-CE)$$
  
  
where:  
  
E = particulate matter emission rate (lbs/hr),  
M = maximum coating solids usage rate (lbs/hr),  
TE = transfer efficiency of coating equipment (ratio of the amount of coating solids deposited on the coated part to the amount of coating solids used),  
CE = control efficiency of the control equipment.  
  
If required, the permittee shall demonstrate compliance with this emission limitation in accordance with the methods and procedures specified in OAC rule 3745-17-03(B)(10).

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#### VI. Miscellaneous Requirements

1. The permittee installed this emissions unit in 1974 without first applying for and obtaining a permit to install (PTI), in violation of OAC rule 3745-31-02. The permittee shall, as the initial step for this emissions unit to achieve compliance with the applicable requirements, submit a complete PTI application within 1 month after issuance of this permit.

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Facility ID: 0125042608 Emissions Unit ID: R001 Issuance type: Title V Final 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>
2. <b>Additional Terms and Conditions</b>			
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: 0125042608 Emissions Unit ID: R002 Issuance type: Title V Final 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>
wood and plastic furniture maintenance spray booth - Booth #5A	OAC rule 3745-21-07(G)(2)	Organic compound emissions shall not exceed 8 lbs/hr and 40 lbs/day.
	OAC rule 3745-17-07(A)	Visible particulate emissions shall not exceed 20% opacity as a 6-minute average, except as provided by rule.
	OAC rule 3745-17-11(B)(1)	Particulate emissions shall not exceed 0.551 pound per hour.

**2. Additional Terms and Conditions**

- (a) None

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**II. Operational Restrictions**

1. The permittee shall operate the dry filtration system whenever this emissions unit is in operation.

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

1. The permittee shall collect and record the following information for each day for the coating operation:
  - a. the company identification for each coating and cleanup material employed;
  - b. the company identification for each photochemically reactive cleanup material employed;
  - c. the number of gallons of each coating and cleanup material employed;
  - d. the organic compound content of each coating and cleanup material, in pounds per gallon;
  - e. the total organic compound emission rate for all coatings and cleanup materials, in pounds per day;
  - f. the total number of hours the emissions unit was in operation;
  - g. the average hourly organic compound emission rate for all coatings and cleanup materials, i.e., (d)/(e), in pounds per hour (average);
  - h. if the total organic compound emission rate for all coatings and cleanup materials exceeds 40 pounds per day, as found in (g), then the permittee shall record the organic compound emission rate for all coatings and photochemically reactive cleanup materials, in pounds per day; and
  - i. if the average hourly organic compound emission rate for all coatings and cleanup materials exceeds 8 pounds per hour, as found in (e), then the permittee shall record the average hourly organic compound emission rate for all coatings and photochemically reactive cleanup materials, in pounds per hour (average).

[Note: The coating information must be for the coatings as employed, including any thinning solvents added at the emissions unit. Also, the definition of "photochemically reactive material" is based upon OAC rule 3745-21-01(C)(5).]
2. The permittee shall maintain daily records that document any time periods when the dry filtration system was not in service when the emissions unit was in operation.

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**IV. Reporting Requirements**

1. The permittee shall submit quarterly deviation (excursion) reports that include the following information:
  - a. an identification of each hour during which the organic compound emissions from the coatings and photochemically reactive cleanup materials exceeded 8 lbs/hr, and the actual organic compound emissions for each such hour; and

b. an identification of each day during which the organic compound emissions from the coatings and photochemically reactive cleanup materials exceeded 40 lbs/day, and the actual organic compound emissions for each such day.

The quarterly deviation reports shall be submitted in accordance with General Term and Condition A.1.c.ii of this permit.

2. The permittee shall notify the Director (the appropriate District Office or local air agency) in writing of any daily record showing that the dry filtration system was not in service when the emissions unit was in operation. The notification shall include a copy of such record and shall be sent to the Director (the appropriate District Office or local air agency) within 30 days after the event occurs.

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#### V. Testing Requirements

1. Compliance with the emission limitations in Section A.I. of these terms and conditions shall be determined in accordance with the following methods:

- a. Emission Limitations:

Organic compound emissions shall not exceed 8 lbs/hr and 40 lbs/day.

Applicable Compliance Method:

Compliance may be demonstrated through the record keeping in Section A.III.1.

If required, the permittee shall demonstrate compliance with the hourly emission limitation through emission tests performed in accordance with 40 CFR Part 60, Appendix A, Methods 1 through 4 and 18 or 25, as appropriate.

- b. Emission Limitation:

Visible particulate emissions shall not exceed 20% opacity as a 6-minute average, except as provided by rule.

Applicable Compliance Method:

Compliance shall be determined through visible emissions observations performed in accordance with 40 CFR Part 60, Appendix A, Method 9 and the procedures specified in OAC rule 3745-17-03(B)(1).

- c. Emission Limitation:

Particulate emissions shall not exceed 0.551 pound per hour.

Applicable Compliance Method:

To determine the actual worst case emission rate for particulates, the following equation may be used:

$$E = (M) * (1-TE) * (1-CE)$$

where:

E = particulate matter emission rate (lbs/hr),

M = maximum coating solids usage rate (lbs/hr),

TE = transfer efficiency of coating equipment (ratio of the amount of coating solids deposited on the coated part to the amount of coating solids used),

CE = control efficiency of the control equipment.

If required, the permittee shall demonstrate compliance with this emission limitation in accordance with the methods and procedures specified in OAC rule 3745-17-03(B)(10).

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#### VI. Miscellaneous Requirements

1. The permittee installed this emissions unit in 1974 without first applying for and obtaining a permit to install (PTI), in violation of OAC rule 3745-31-02. The permittee shall, as the initial step for this emissions unit to achieve compliance with the applicable requirements, submit a complete PTI application within 1 month after issuance of this permit.

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#### 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>
2. <b>Additional Terms and Conditions</b>		
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