

Facility ID: 1677011153 Issuance type: Final State Permit To Operate

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 II" and before "A. Applicable Emissions Limitations..." has been added to aid in document conversion, and was not part of the original issued permit.

[Go to Part II for Emissions Unit B005](#)  
[Go to Part II for Emissions Unit B006](#)  
[Go to Part II for Emissions Unit B007](#)

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Facility ID: 1677011153 Emissions Unit ID: B005 Issuance type: Final State Permit To Operate

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**Part II - Special Terms and Conditions**

This permit document constitutes a permit-to-install issued in accordance with ORC 3704.03(F) and a permit-to-operate issued in accordance with ORC 3704.03(G).

1. For the purpose of a permit-to-install document, the emissions unit terms and conditions identified below are federally enforceable with the exception of those listed below which are enforceable under state law only.
  - (a) None.
2. For the purpose of a permit-to-operate document, the emissions unit terms and conditions identified below are enforceable under state law only with the exception of those listed below which are federally enforceable.
  - (a) None.

**A. 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>
Natural gas/#2 fuel oil-fired boiler (installed 1953, 50 million Btu/hr maximum heat input capacity, emissions uncontrolled) used for process and space heat.	OAC rule 3745-17-07(A)	Visible particulate emissions (PE) shall not exceed 20% opacity, as a six-minute average, except as provided by rule.
This facility, which consists of B005 (B&W Boiler #1, Plant D), B006 (B&W Boiler #2, Plant D), B007 (B&W Boiler #3, Plant D), and two OAC rule 3745-31-03 permit-exempt emissions units B015 (Gas-Fired Emergency Generator) and T004 (#2 Fuel Oil Storage Tanks), is a natural minor source of all air pollutants, except sulfur dioxide (SO <sub>2</sub> ). See A.2.b.	OAC rule 3745-17-10(B)	PE shall not exceed 0.020 pound per million Btu of actual heat input.
	OAC rule 3745-18-83	The SO <sub>2</sub> emission limitation based upon OAC rule 3745-18-83(J) is replaced by the SO <sub>2</sub> emission limitation based upon 40 CFR 52.1881.
	40 CFR 52.1881	SO <sub>2</sub> emissions shall not exceed 1.83 pounds per million Btu of actual heat input.

**2. Additional Terms and Conditions**

- (a) The permittee shall apply for and, if required, obtain a final permit to install prior to equipment replacement or equipment modification, such as with heat/fuel input capacity, or fuel change, such as with grade, quality, and/or heat content, that would increase the potential emissions of any air pollutant. Although this facility has an unrestricted potential to emit more than 100 tons of SO<sub>2</sub> per year, actual facility SO<sub>2</sub> emissions, based upon application data and fuel oil quality/usage reporting, are consistently less than 20% of the applicable major source Title V emission threshold. Therefore, the facility is considered a minor source of SO<sub>2</sub> emissions and, at this time, is not subject to the Title V program.

However, prior to enacting any proposed change, such as increasing fuel oil usage, switching to higher sulfur content fuel oil, or replacing/modifying equipment, the permittee shall perform a potential to emit (PTE) analysis indicating unrestricted facility emissions before and after the proposed change. A copy of this PTE analysis shall be provided to this Agency (Akron Regional AQMD).

If the PTE analysis shows the facility's minor source status will be compromised, then the permittee shall henceforth, prior to enacting the proposed change(s), either comply with all applicable requirements of the Title V program, in accordance with OAC Chapter 3745-77, and submit a Title V permit application, or avoid the Title V program by applying for and accepting federally enforceable operating/emission restrictions at the facility.

**B. Operational Restrictions**

1. The permittee shall burn only natural gas and/or number two fuel oil in this emissions unit.
2. The quality of the oil burned in this emissions unit shall meet the following specifications on an as-received basis:
  - a. a sulfur content which is sufficient to comply with the allowable sulfur dioxide emission limitation of 1.83 pounds of sulfur dioxide per million Btu of actual heat input; and
  - b. a heat content greater than 135,000 Btu per gallon of oil.

Compliance with the above-mentioned specifications shall be determined by using the weighted, arithmetic average of the analytical results provided by the permittee or oil supplier for all shipments of oil during each calendar month.

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

1. The permittee shall maintain records of the oil burned in this emissions unit in accordance with either Alternative 1 or Alternative 2 described below.
 

Alternative 1:

For each shipment of oil received for burning in this emissions unit, the permittee shall collect or require the oil supplier to collect a representative grab sample of oil and 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 lb/mmBtu). [The sulfur dioxide emission rate shall be calculated in accordance with the formula specified in OAC rule 3745-18-04(F)]. A shipment may be comprised of multiple tank truck loads from the same supplier's batch, and the quality of the oil for those loads may be represented by a single batch analysis from the supplier.

Alternative 2:

The permittee shall collect a representative grab sample of oil that is burned in this emissions unit for each day when the emissions unit is in operation. If additional fuel oil is added to the tank serving this emissions unit on a day when the emissions unit is in operation, the permittee shall collect a sufficient number of grab samples to develop a composite sample representative of the fuel oil burned in this emissions unit. A representative grab sample of oil does not need to be collected on days when this emissions unit is only operated for the purpose of "test-firing." The permittee shall maintain records of the total quantity of oil burned each day, except for the purpose of test-firing, the permittee's analyses for sulfur content and heat content, and the calculated sulfur dioxide emission rate (in lb/mmBtu). [The sulfur dioxide emission rate shall be calculated in accordance with the formula specified in OAC rule 3745-18-04(F)].
2. The permittee shall perform or require the supplier to perform the analyses for sulfur content and heat content in accordance with 40 CFR Part 60, Appendix A, Method 19, or the appropriate ASTM methods (such as, ASTM methods D240 and D4294), or equivalent methods as approved by the Director.
3. For each day during which the permittee burns a fuel other than natural gas or No. 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 records of the following information:
  - a. The total number of gallons of No. 2 fuel oil used at this facility for each calendar year.
  - b. The total SO<sub>2</sub> emissions from this facility during the previous calendar year

**D. Reporting Requirements**

1. The permittee shall submit deviation (excursion) reports that identify each day when a fuel other than natural gas and/or No. 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 submit, on a quarterly basis, copies of the permittee's or oil supplier's analyses for each shipment of oil which is received for burning in this emissions unit. The permittee's or oil supplier's analyses shall document the sulfur content (percent) and heat content (Btu/gallon) for each shipment of oil. The following information shall also be included with the copies of the permittee's or oil supplier's analyses:
  - a. the total quantity of oil received in each shipment (gallons);
  - b. the weighted\* average sulfur dioxide emission rate (pounds/mmBtu) for the oil received during the calendar month; and
  - c. the weighted\* average heat content (Btu/gallon) of the oil received during the calendar month.

\*In proportion to the quantity of oil received in each shipment during the calendar month.

These quarterly reports shall be submitted by February 15, May 15, August 15, and November 15 of each year and shall cover the oil shipments received during the previous calendar quarters.

3. The permittee shall submit annual reports that specify the total number of gallons of No. 2 fuel oil used at this facility during the previous calendar year. The reports shall be submitted by January 31 of each year.
4. The permittee shall submit annual reports that specify the total SO<sub>2</sub> emissions from this facility during the previous calendar year. The reports shall be submitted by January 31 of each year.

**E. Testing Requirements**

1. Compliance with the emission limitations in section A.1 of these terms and conditions shall be determined in accordance with the following methods, using applicable emission factors from US EPA reference document AP-42, Fifth Edition, Tables 1.3-1, 1.4-1, and 1.4-2, and heat contents of 136,592 Btu/gallon of oil & 1034 Btu/cubic foot of gas:  
Emission Limitation: Visible PE shall not exceed 20% opacity, as a six-minute average.

Applicable Compliance Method: Compliance with the visible PE shall be demonstrated in accordance with Method 9 of 40 CFR Part 60, Appendix A.  
Emission Limitation: 0.020 lb PE/mmBtu heat input

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

When burning gas:

$$E = GP/H$$

Where:

E = 0.0019 lb PE/mmBtu heat input [potential to emit];  
G = 0.05 mm cu ft/hr [maximum fuel usage rate];  
P = 1.9 lbs PE/mm cu ft [emission factor]; and  
H = 50 mmBtu/hr [maximum heat input capacity].

When burning oil:

$$E = OP/H$$

Where:

E = 0.01 lb PE/mmBtu heat input [potential to emit];  
O = 370 gals/hr [maximum fuel usage rate];  
P = 2 lbs PE/1000 gals [emission factor]; and  
H = 50 mmBtu/hr [maximum heat input capacity].

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

1.83 pounds of sulfur dioxide per million Btu of actual heat input

Applicable Compliance Method:

When burning distillate fuel oil compliance shall be based upon the volume and analytical results of each shipment of oil, and the use of the equation contained in OAC rule 3745-18-04(F)(2) to calculate the actual sulfur dioxide emission rate for each calendar month.

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

**F. Miscellaneous Requirements**

1. None

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Facility ID: 1677011153 Emissions Unit ID: B006 Issuance type: Final State Permit To Operate

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**Part II - Special Terms and Conditions**

This permit document constitutes a permit-to-install issued in accordance with ORC 3704.03(F) and a permit-to-operate issued in accordance with ORC 3704.03(G).

1. For the purpose of a permit-to-install document, the emissions unit terms and conditions identified below are federally enforceable with the exception of those listed below which are enforceable under state law only.
  - (a) None.
2. For the purpose of a permit-to-operate document, the emissions unit terms and conditions identified below are enforceable under state law only with the exception of those listed below which are federally enforceable.
  - (a) None.

**A. 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>
Natural gas/#2 fuel oil-fired boiler (installed 1953, 50 million Btu/hr maximum heat input capacity, emissions uncontrolled) used for process and space heat.	OAC rule 3745-17-07(A)	Visible particulate emissions (PE) shall not exceed 20% opacity, as a six-minute average, except as provided by rule.

This facility, which consists of B005 (B&W Boiler #1, Plant D), B006 (B&W Boiler #2, Plant D), B007 (B&W Boiler #3, Plant D), and two OAC rule 3745-31-03 permit-exempt emissions units B015 (Gas-Fired Emergency Generator) and T004 (#2 Fuel Oil Storage Tanks), is a natural minor source of all air pollutants, except sulfur dioxide (SO<sub>2</sub>). See A.2.b.

OAC rule 3745-17-10(B)	PE shall not exceed 0.020 pound per million Btu of actual heat input.
OAC rule 3745-18-83	The SO <sub>2</sub> emission limitation based upon OAC rule 3745-18-83(J) is replaced by the SO <sub>2</sub> emission limitation based upon 40 CFR 52.1881.
40 CFR 52.1881	SO <sub>2</sub> emissions shall not exceed 1.83 pounds per million Btu of actual heat input.

**2. Additional Terms and Conditions**

- (a) The permittee shall apply for and, if required, obtain a final permit to install prior to equipment replacement or equipment modification, such as with heat/fuel input capacity, or fuel change, such as with grade, quality, and/or heat content, that would increase the potential emissions of any air pollutant. Although this facility has an unrestricted potential to emit more than 100 tons of SO<sub>2</sub> per year, actual facility SO<sub>2</sub> emissions, based upon application data and fuel oil quality/usage reporting, are consistently less than 20% of the applicable major source Title V emission threshold. Therefore, the facility is considered a minor source of SO<sub>2</sub> emissions and, at this time, is not subject to the Title V program.

However, prior to enacting any proposed change, such as increasing fuel oil usage, switching to higher sulfur content fuel oil, or replacing/modifying equipment, the permittee shall perform a potential to emit (PTE) analysis indicating unrestricted facility emissions before and after the proposed change. A copy of this PTE analysis shall be provided to this Agency (Akron Regional AQMD).

If the PTE analysis shows the facility's minor source status will be compromised, then the permittee shall henceforth, prior to enacting the proposed change(s), either comply with all applicable requirements of the Title V program, in accordance with OAC Chapter 3745-77, and submit a Title V permit application, or avoid the Title V program by applying for and accepting federally enforceable operating/emission restrictions at the facility.

**B. Operational Restrictions**

- 1. The permittee shall burn only natural gas and/or number two fuel oil in this emissions unit.
- 2. The quality of the oil burned in this emissions unit shall meet the following specifications on an as-received basis:
  - a. a sulfur content which is sufficient to comply with the allowable sulfur dioxide emission limitation of 1.83 pounds of sulfur dioxide per million Btu of actual heat input; and
  - b. a heat content greater than 135,000 Btu per gallon of oil.

Compliance with the above-mentioned specifications shall be determined by using the weighted, arithmetic average of the analytical results provided by the permittee or oil supplier for all shipments of oil during each calendar month.

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

- 1. The permittee shall maintain records of the oil burned in this emissions unit in accordance with either Alternative 1 or Alternative 2 described below.

**Alternative 1:**

For each shipment of oil received for burning in this emissions unit, the permittee shall collect or require the oil supplier to collect a representative grab sample of oil and 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 lb/mmBtu). [The sulfur dioxide emission rate shall be calculated in accordance with the formula specified in OAC rule 3745-18-04(F)]. A shipment may be comprised of multiple tank truck loads from the same supplier's batch, and the quality of the oil for those loads may be represented by a single batch analysis from the supplier.

**Alternative 2:**

The permittee shall collect a representative grab sample of oil that is burned in this emissions unit for each day when the emissions unit is in operation. If additional fuel oil is added to the tank serving this emissions unit on a day when the emissions unit is in operation, the permittee shall collect a sufficient number of grab samples to develop a composite sample representative of the fuel oil burned in this emissions unit. A representative grab sample of oil does not need to be collected on days when this emissions unit is only operated for the purpose of "test-firing." The permittee shall maintain records of the total quantity of oil burned each day, except for the purpose of test-firing, the permittee's analyses for sulfur content and heat content, and the calculated sulfur dioxide emission rate (in lb/mmBtu). [The sulfur dioxide emission rate shall be calculated in accordance with the formula specified in OAC rule 3745-18-04(F)].

- 2. The permittee shall perform or require the supplier to perform the analyses for sulfur content and heat content in accordance with 40 CFR Part 60, Appendix A, Method 19, or the appropriate ASTM methods (such as, ASTM methods D240 and D4294), or equivalent methods as approved by the Director.
- 3. For each day during which the permittee burns a fuel other than natural gas or No. 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 records of the following information:
  - a. The total number of gallons of No. 2 fuel oil used at this facility for each calendar year.
  - b. The total SO<sub>2</sub> emissions from this facility during the previous calendar year

**D. Reporting Requirements**

1. The permittee shall submit deviation (excursion) reports that identify each day when a fuel other than natural gas and/or No. 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 submit, on a quarterly basis, copies of the permittee's or oil supplier's analyses for each shipment of oil which is received for burning in this emissions unit. The permittee's or oil supplier's analyses shall document the sulfur content (percent) and heat content (Btu/gallon) for each shipment of oil. The following information shall also be included with the copies of the permittee's or oil supplier's analyses:
  - a. the total quantity of oil received in each shipment (gallons);
  - b. the weighted\* average sulfur dioxide emission rate (pounds/mmBtu) for the oil received during the calendar month; and
  - c. the weighted\* average heat content (Btu/gallon) of the oil received during the calendar month.

\*In proportion to the quantity of oil received in each shipment during the calendar month.

These quarterly reports shall be submitted by February 15, May 15, August 15, and November 15 of each year and shall cover the oil shipments received during the previous calendar quarters.

3. The permittee shall submit annual reports that specify the total number of gallons of No. 2 fuel oil used at this facility during the previous calendar year. The reports shall be submitted by January 31 of each year.
4. The permittee shall submit annual reports that specify the total SO<sub>2</sub> emissions from this facility during the previous calendar year. The reports shall be submitted by January 31 of each year.

**E. Testing Requirements**

1. Compliance with the emission limitations in section A.1 of these terms and conditions shall be determined in accordance with the following methods, using applicable emission factors from US EPA reference document AP-42, Fifth Edition, Tables 1.3-1, 1.4-1, and 1.4-2, and heat contents of 136,592 Btu/gallon of oil & 1034 Btu/cubic foot of gas:  
Emission Limitation: Visible PE shall not exceed 20% opacity, as a six-minute average.

Applicable Compliance Method: Compliance with the visible PE shall be demonstrated in accordance with Method 9 of 40 CFR Part 60, Appendix A.  
Emission Limitation: 0.020 lb PE/mmBtu heat input

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

When burning gas:

$$E = GP/H$$

Where:

E = 0.0019 lb PE/mmBtu heat input [potential to emit];  
G = 0.05 mm cu ft/hr [maximum fuel usage rate];  
P = 1.9 lbs PE/mm cu ft [emission factor]; and  
H = 50 mmBtu/hr [maximum heat input capacity].

When burning oil:

$$E = OP/H$$

Where:

E = 0.01 lb PE/mmBtu heat input [potential to emit];  
O = 370 gals/hr [maximum fuel usage rate];  
P = 2 lbs PE/1000 gals [emission factor]; and  
H = 50 mmBtu/hr [maximum heat input capacity].

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

1.83 pounds of sulfur dioxide per million Btu of actual heat input

Applicable Compliance Method:

When burning distillate fuel oil compliance shall be based upon the volume and analytical results of each shipment of oil, and the use of the equation contained in OAC rule 3745-18-04(F)(2) to calculate the actual sulfur dioxide emission rate for each calendar month.

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

**F. Miscellaneous Requirements**

- 1. None

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Facility ID: 1677011153 Emissions Unit ID: B007 Issuance type: Final State Permit To Operate

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**Part II - Special Terms and Conditions**

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- 1. For the purpose of a permit-to-install document, the emissions unit terms and conditions identified below are federally enforceable with the exception of those listed below which are enforceable under state law only.
  - (a) None.
- 2. For the purpose of a permit-to-operate document, the emissions unit terms and conditions identified below are enforceable under state law only with the exception of those listed below which are federally enforceable.
  - (a) None.

**A. 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>
Natural gas/#2 fuel oil-fired boiler (installed 1953, 50 million Btu/hr maximum heat input capacity, emissions uncontrolled) used for process and space heat.	OAC rule 3745-17-07(A)	Visible particulate emissions (PE) shall not exceed 20% opacity, as a six-minute average, except as provided by rule.
This facility, which consists of B005 (B&W Boiler #1, Plant D), B006 (B&W Boiler #2, Plant D), B007 (B&W Boiler #3, Plant D), and two OAC rule 3745-31-03 permit-exempt emissions units B015 (Gas-Fired Emergency Generator) and T004 (#2 Fuel Oil Storage Tanks), is a natural minor source of all air pollutants, except sulfur dioxide (SO <sub>2</sub> ). See A.2.b.	OAC rule 3745-17-10(B)	PE shall not exceed 0.020 pound per million Btu of actual heat input.
	OAC rule 3745-18-83	The SO <sub>2</sub> emission limitation based upon OAC rule 3745-18-83(J) is replaced by the SO <sub>2</sub> emission limitation based upon 40 CFR 52.1881.
	40 CFR 52.1881	SO <sub>2</sub> emissions shall not exceed 1.83 pounds per million Btu of actual heat input.

**2. Additional Terms and Conditions**

- (a) The permittee shall apply for and, if required, obtain a final permit to install prior to equipment replacement or equipment modification, such as with heat/fuel input capacity, or fuel change, such as with grade, quality, and/or heat content, that would increase the potential emissions of any air pollutant. Although this facility has an unrestricted potential to emit more than 100 tons of SO<sub>2</sub> per year, actual facility SO<sub>2</sub> emissions, based upon application data and fuel oil quality/usage reporting, are consistently less than 20% of the applicable major source Title V emission threshold. Therefore, the facility is considered a minor source of SO<sub>2</sub> emissions and, at this time, is not subject to the Title V program.

However, prior to enacting any proposed change, such as increasing fuel oil usage, switching to higher sulfur content fuel oil, or replacing/modifying equipment, the permittee shall perform a potential to emit (PTE) analysis indicating unrestricted facility emissions before and after the proposed change. A copy of this PTE analysis shall be provided to this Agency (Akron Regional AQMD).

If the PTE analysis shows the facility's minor source status will be compromised, then the permittee shall henceforth, prior to enacting the proposed change(s), either comply with all applicable requirements of the Title V program, in accordance with OAC Chapter 3745-77, and submit a Title V permit application, or avoid the Title V program by applying for and accepting federally enforceable operating/emission restrictions at the facility.

**B. Operational Restrictions**

1. The permittee shall burn only natural gas and/or number two fuel oil in this emissions unit.
2. The quality of the oil burned in this emissions unit shall meet the following specifications on an as-received basis:
  - a. a sulfur content which is sufficient to comply with the allowable sulfur dioxide emission limitation of 1.83 pounds of sulfur dioxide per million Btu of actual heat input; and
  - b. a heat content greater than 135,000 Btu per gallon of oil.

Compliance with the above-mentioned specifications shall be determined by using the weighted, arithmetic average of the analytical results provided by the permittee or oil supplier for all shipments of oil during each calendar month.

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

1. The permittee shall maintain records of the oil burned in this emissions unit in accordance with either Alternative 1 or Alternative 2 described below.
 

Alternative 1:

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Alternative 2:

The permittee shall collect a representative grab sample of oil that is burned in this emissions unit for each day when the emissions unit is in operation. If additional fuel oil is added to the tank serving this emissions unit on a day when the emissions unit is in operation, the permittee shall collect a sufficient number of grab samples to develop a composite sample representative of the fuel oil burned in this emissions unit. A representative grab sample of oil does not need to be collected on days when this emissions unit is only operated for the purpose of "test-firing." The permittee shall maintain records of the total quantity of oil burned each day, except for the purpose of test-firing, the permittee's analyses for sulfur content and heat content, and the calculated sulfur dioxide emission rate (in lb/mmBtu). [The sulfur dioxide emission rate shall be calculated in accordance with the formula specified in OAC rule 3745-18-04(F)].
2. The permittee shall perform or require the supplier to perform the analyses for sulfur content and heat content in accordance with 40 CFR Part 60, Appendix A, Method 19, or the appropriate ASTM methods (such as, ASTM methods D240 and D4294), or equivalent methods as approved by the Director.
3. For each day during which the permittee burns a fuel other than natural gas or No. 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 records of the following information:
  - a. The total number of gallons of No. 2 fuel oil used at this facility for each calendar year.
  - b. The total SO<sub>2</sub> emissions from this facility during the previous calendar year.

**D. Reporting Requirements**

1. The permittee shall submit deviation (excursion) reports that identify each day when a fuel other than natural gas and/or No. 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 submit, on a quarterly basis, copies of the permittee's or oil supplier's analyses for each shipment of oil which is received for burning in this emissions unit. The permittee's or oil supplier's analyses shall document the sulfur content (percent) and heat content (Btu/gallon) for each shipment of oil. The following information shall also be included with the copies of the permittee's or oil supplier's analyses:
  - a. the total quantity of oil received in each shipment (gallons);
  - b. the weighted\* average sulfur dioxide emission rate (pounds/mmBtu) for the oil received during the calendar month; and
  - c. the weighted\* average heat content (Btu/gallon) of the oil received during the calendar month.

\*In proportion to the quantity of oil received in each shipment during the calendar month.

These quarterly reports shall be submitted by February 15, May 15, August 15, and November 15 of each year and shall cover the oil shipments received during the previous calendar quarters.

3. The permittee shall submit annual reports that specify the total number of gallons of No. 2 fuel oil used at this facility during the previous calendar year. The reports shall be submitted by January 31 of each year.
4. The permittee shall submit annual reports that specify the total SO<sub>2</sub> emissions from this facility during the previous calendar year. The reports shall be submitted by January 31 of each year.

**E. Testing Requirements**

1. Compliance with the emission limitations in section A.1 of these terms and conditions shall be determined in accordance with the following methods, using applicable emission factors from US EPA reference document AP-42, Fifth Edition, Tables 1.3-1, 1.4-1, and 1.4-2, and heat contents of 136,592 Btu/gallon of oil & 1034 Btu/cubic foot of gas:  
Emission Limitation: Visible PE shall not exceed 20% opacity, as a six-minute average.

Applicable Compliance Method: Compliance with the visible PE shall be demonstrated in accordance with Method 9 of 40 CFR Part 60, Appendix A.  
Emission Limitation: 0.020 lb PE/mmBtu heat input

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

When burning gas:

$$E = GP/H$$

Where:

E = 0.0019 lb PE/mmBtu heat input [potential to emit];  
G = 0.05 mm cu ft/hr [maximum fuel usage rate];  
P = 1.9 lbs PE/mm cu ft [emission factor]; and  
H = 50 mmBtu/hr [maximum heat input capacity].

When burning oil:

$$E = OP/H$$

Where:

E = 0.01 lb PE/mmBtu heat input [potential to emit];  
O = 370 gals/hr [maximum fuel usage rate];  
P = 2 lbs PE/1000 gals [emission factor]; and  
H = 50 mmBtu/hr [maximum heat input capacity].

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

1.83 pounds of sulfur dioxide per million Btu of actual heat input

Applicable Compliance Method:

When burning distillate fuel oil compliance shall be based upon the volume and analytical results of each shipment of oil, and the use of the equation contained in OAC rule 3745-18-04(F)(2) to calculate the actual sulfur dioxide emission rate for each calendar month.

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

**F. Miscellaneous Requirements**

1. None