

Facility ID: 0285030411 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.

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Facility ID: 0285030411 Emissions Unit ID: P001 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>
3.92 mmBtu/hr Waukesha Model VGF24GLD generator, fueled by digester gas or natural gas	OAC rule 3745-31-05(A)(3) (PTI #02-19183)	0.13 lb/hr and 0.56 TPY of particulate emissions (PE)
		4.50 lbs/hr and 19.71 TPY of sulfur dioxide (SO2)
		2.57 lbs/hr and 11.26 TPY of nitrogen oxides (NOx)
		3.21 lbs/hr and 14.07 TPY of carbon monoxide (CO)
		0.51 lb/hr and 2.25 TPY of organic compounds (OC)
	OAC rule 3745-17-11(B)(5)	Visible emissions from this emissions unit shall not exceed 5% opacity, as a six-minute average.
	OAC rule 3745-17-07(A)(1)	The emission limitation specified in this rule is less stringent than the limit established pursuant to OAC rule 3745-31-05(A)(3). The visible emission limitation specified in this rule is less stringent than the limit established pursuant to OAC rule 3745-31-05(A)(3).

2. **Additional Terms and Conditions**
 - (a) The annual emission limitations specified above are based upon this emissions unit's potential to emit. Therefore, no monitoring, record keeping, or reporting requirements are necessary to demonstrate compliance with these limits.

B. Operational Restrictions

1. The permittee shall burn only natural gas or digester gas in this emissions unit.
2. The hydrogen sulfide content of the fuel burned shall not exceed 3,400 ppm.

C. Monitoring and/or Record Keeping Requirements

1. The permittee shall monitor hydrogen sulfide weekly, by using the Draeger or Gastec tube detection methods. The reliability rating of the Draeger or Gastec tubes is +/- 25%. Therefore, to ensure compliance with a hydrogen sulfide concentration of 3,400 ppm, hydrogen sulfide readings on the Draeger or Gastec tube shall not exceed 2,550 ppm.

The permittee shall maintain records of the hydrogen sulfide concentration in ppm for each weekly test.

2. The permittee shall maintain records of type(s) of fuel(s) burned in this emissions unit each day.

D. Reporting Requirements

1. The permittee shall submit deviation (excursion) reports identifying any day which a fuel other than natural gas or digester gas was burned in this emissions unit.
2. The permittee shall submit deviation (excursion) reports identifying any days which the hydrogen sulfide content of

the fuel burned exceeded the level specified in section B.2.

E. Testing Requirements

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

Emission Limitations:
 0.13 lb/hr and 0.56 TPY of PE
 4.50 lbs/hr and 19.71 TPY of SO₂
 2.57 lbs/hr and 11.26 TPY of NO_x
 3.21 lbs/hr and 14.07 TPY of CO
 0.51 lb/hr and 2.25 TPY of OC

Applicable Compliance Method:
 Compliance with the above emission limitations shall be determined using the manufacturer supplied emission factors specified below and the 530 bhp rating of the unit.

Emission Factors:
 0.1 g/bhp-hr of PE
 3.5 g/bhp-hr of SO₂
 2.0 g/bhp-hr of NO_x
 2.5 g/bhp-hr of CO
 0.4 g/bhp-hr of OC

The annual emission limitations were created by multiplying the hourly emission limitation by 8,760 hrs/yr and dividing by 2,000 lbs/ton. Therefore, as long as compliance with the hourly limit is shown, compliance with the annual limit will be assumed.

Emission Limitation:
 Visible emissions from this emissions unit shall not exceed 5% opacity, as a six-minute average.

Applicable Compliance Method:
 Compliance with the visible emission limitation shall be determined using Method 9 of 40 CFR, Part 60, Appendix A.

F. Miscellaneous Requirements

1. None

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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>
emergency digester gas flare	OAC rule 3745-31-05(A)(3) (PTI #02-19183)	0.02 lb/hr and 0.09 TPY of particulate emissions (PE) 0.49 lb/hr and 2.15 TPY of sulfur dioxide (SO ₂) 0.30 lbs/hr and 1.32 TPY of nitrogen oxides (NO _x) 1.64 lbs/hr and 7.18 TPY of carbon monoxide (CO) 0.62 lb/hr and 2.72 TPY of organic compounds (OC) Visible emissions from this emissions unit shall not exceed 5% opacity, as a six-minute average.

2. **Additional Terms and Conditions**

- (a) The annual emission limitations specified above are based upon this emissions unit's potential to emit. Therefore, no monitoring, record keeping, or reporting requirements are necessary to demonstrate compliance with these limits.

B. Operational Restrictions

1. The permittee shall burn only natural gas or digester gas in this emissions unit.
2. The hydrogen sulfide content of the fuel burned shall not exceed 3,400 ppm.

C. Monitoring and/or Record Keeping Requirements

1. The permittee shall monitor hydrogen sulfide weekly, by using the Draeger or Gastec tube detection methods. The reliability rating of the Draeger or Gastec tubes is +/- 25%. Therefore, to ensure compliance with a hydrogen sulfide concentration of 3,400 ppm, hydrogen sulfide readings on the Draeger or Gastec tube shall not exceed 2,550 ppm.

The permittee shall maintain records of the hydrogen sulfide concentration in ppm for each weekly test.

2. The permittee shall maintain records of type(s) of fuel(s) burned in this emissions unit each day.

D. Reporting Requirements

1. The permittee shall submit deviation (excursion) reports identifying any day which a fuel other than natural gas or digester gas was burned in this emissions unit.
2. The permittee shall submit deviation (excursion) reports identifying any days which the hydrogen sulfide content of the fuel burned exceeded the level specified in section B.2.

E. Testing Requirements

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

Emission Limitations:
0.02 lb/hr and 0.09 TPY of PE

Applicable Compliance Method:

Compliance with the above emission limitations shall be determined using the emission factor of 40 micrograms/liter in Table 13.5-1 of AP-42 Compilation of Air Pollutant Emission Factors, Chapter 13 entitled "Industrial Flares," dated 5/95. This factor for lightly smoking flares was chosen to be conservative. No visible emissions are expected to be present.

Emission Limitations:
0.49 lb/hr and 2.15 TPY of SO₂

Applicable Compliance Method:

Compliance with the above emission limitations shall be determined using the equation listed in OAC rule 3745-18-04(F)(3).

Emission Limitations:
0.30 lbs/hr and 1.32 TPY of NO_x

Applicable Compliance Method:

Compliance with the above emission limitations shall be determined using the emission factor of 0.068 lb/mmBtu in Table 13.5-1 of AP-42 Compilation of Air Pollutant Emission Factors, Chapter 13 entitled "Industrial Flares," dated 5/95.

Emission Limitations:
1.64 lbs/hr and 7.18 TPY of CO

Applicable Compliance Method:

Compliance with the above emission limitations shall be determined using the emission factor of 0.37 lb/mmBtu in Table 13.5-1 of AP-42 Compilation of Air Pollutant Emission Factors, Chapter 13 entitled "Industrial Flares," dated 5/95.

Emission Limitations:
0.62 lb/hr and 2.72 TPY of OC

Applicable Compliance Method:

Compliance with the above emission limitations shall be determined using the emission factor of 0.14 lb/mmBtu in Table 13.5-1 of AP-42 Compilation of Air Pollutant Emission Factors, Chapter 13 entitled "Industrial Flares," dated 5/95.

Emission Limitation:

Visible emissions from this emissions unit shall not exceed 5% opacity, as a six-minute average.

Applicable Compliance Method:

Compliance with the visible emission limitation shall be determined using Method 9 of 40 CFR, Part 60, Appendix A.

F. Miscellaneous Requirements

1. None