

Facility ID: 0616010095 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.

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION

Facility ID: 0616010095 Emissions Unit ID: P901 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>
P901 - Digester controlled by 7.424 MMBtu/hr Biogas Flare	OAC rule 3745-31-05(A)(3) (PTI #06-08383 issued 2/5/2008)	Carbon monoxide (CO) emissions shall not exceed 3.83 lbs/hr and 16.75 tons/yr. Compliance with this rule also includes compliance with OAC rule 3745-21-08(B).
	OAC rule 3745-17-11(B)	See Sections A.2.a and A.2.e below.
	OAC rule 3745-17-07(A)	See Section A.2.b below.
	OAC rule 3745-18-06(E)(2)	See Section A.2.c below.
	OAC rule 3745-21-08(B)	See Section A.2.d below.
		See Section A.2.f below.

2. Additional Terms and Conditions

- (a) Pursuant to ORC section 3704.03(T)(4), the Best Available Technology (BAT) requirements under OAC rule 3745-31-05(A)(3) do not apply to the particulate and nitrogen oxides emissions from this air contaminant source since the uncontrolled potentials to emit for these pollutants are less than ten tons per year.
The uncontrolled mass rate of particulate emissions (PE)* from this emissions unit is less than 10 pounds/hour. Therefore, pursuant to OAC rule 3745-17-11(A)(2)(a)(ii), Figure II of OAC rule 3745-17-11 does not apply. In addition, Table I of OAC rule 3745-17-11 does not apply because the process weight rate is equal to zero. "Process weight" is defined in OAC rule 3745-17-01(B)(14).

* The burning of biogas is the only source of PE from this emissions unit.
This emissions unit is exempt from the visible PE limitations specified in OAC rule 3745-17-07(A) pursuant to OAC rule 3745-17-07(A)(3)(h) because the emissions unit is not subject to the requirements of OAC rule 3745-17-11.
Pursuant to OAC rule 3745-18-06(C), this emissions unit is exempt from the sulfur dioxide emission limitation established under OAC rule 3745-18-06(E)(2) because the unit's process weight input is less than 1,000 pounds/hour. "Process weight" is defined in OAC rule 3745-18-01(B)(13).
The CO emission limitations were established at the emissions unit's potential to emit. Therefore, it is not necessary to develop monitoring, record keeping, or reporting requirements to ensure compliance with these emission limitations.
The permittee has satisfied the "best available control techniques and operating practices" required pursuant to OAC rule 3745-21-08(B) by committing to comply with the best available technology requirements established pursuant to OAC rule 3745-31-05(A)(3) in this Permit-to-Install.

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

B. Operational Restrictions

1. None

C. Monitoring and/or Record Keeping Requirements

1. None
- D. **Reporting Requirements**
1. None
- 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:
CO emissions shall not exceed 3.83 lbs/hr and 16.75 tons/yr.

Applicable Compliance Methods:
The hourly and annual CO emission limitations were established based upon the emissions unit's maximum waste gas production rate and an AP-42 CO emission factor in accordance with the following equation:

$$\text{tons CO/yr} = (750 \text{ lbs}/106 \text{ scf}) \times (44,676,000 \text{ ft}^3) \times (106 \text{ ft}^3) \times (1 \text{ ton}/2000 \text{ lbs}) = 16.75$$
$$\text{lbs CO/day} = (16.75 \text{ tons/yr}) \times (2000 \text{ lbs/ton}) \times (1 \text{ yr}/365 \text{ days}) = 91.80$$
$$\text{lbs CO/hr} = (91.80 \text{ lbs/day}) \times (1 \text{ day}/24 \text{ hrs}) = 3.83$$

where,

AP-42 CO emission factor = 750 lbs/106 scf [AP-42, 5th Edition, Section 2.4, Table 2.4-5 (11/98)]; and
maximum waste gas production rate = 44,676,000 ft³ [85 ft³/min (max) x (60 min/hr) x (8760 hrs/yr)].

Compliance with these emission limitations may be assumed provided that the flare serving this emissions unit continues to operate properly and the AP-42 emission factor does not change. If required, the permittee shall confirm, through the applicable methods and procedures specified in 40 CFR Part 60.18, that the flare's exit velocity and the net heating value of the biogas conform to the maximum design values specified in the permit application for this emissions unit.
- F. **Miscellaneous Requirements**
1. None