



John R. Kasich, Governor
 Mary Taylor, Lt. Governor
 Craig W. Butler, Director

12/23/2015

Ms. Evan Foster
 Ascent Resources - Utica, LLC - CHC Dutton (Wheeling)
 PO Box 13678
 Oklahoma City, OK 73113

Certified Mail

No	TOXIC REVIEW
No	SYNTHETIC MINOR TO AVOID MAJOR NSR
No	CEMS
Yes	MACT/GACT
Yes	NSPS
No	NESHAPS
No	NETTING
No	MODELING SUBMITTED
No	SYNTHETIC MINOR TO AVOID TITLE V
No	FEDERALLY ENFORCABLE PTIO (FEPTIO)
No	SYNTHETIC MINOR TO AVOID MAJOR GHG

RE: FINALAIR POLLUTION PERMIT-TO-INSTALL AND OPERATE

Facility ID: 0607075002
 Permit Number: P0119643
 Permit Type: Initial Installation
 County: Belmont

Dear Permit Holder:

Enclosed please find a final Ohio Environmental Protection Agency (EPA) Air Pollution Permit-to-Install and Operate (PTIO) which will allow you to install, modify, and/or operate the described emissions unit(s) in the manner indicated in the permit. Because this permit contains conditions and restrictions, please read it very carefully. In this letter you will find the information on the following topics:

- **How to appeal this permit**
- **How to save money, reduce pollution and reduce energy consumption**
- **How to give us feedback on your permitting experience**
- **How to get an electronic copy of your permit**

How to appeal this permit

The issuance of this PTIO is a final action of the Director and may be appealed to the Environmental Review Appeals Commission pursuant to Section 3745.04 of the Ohio Revised Code. The appeal must be in writing and set forth the action complained of and the grounds upon which the appeal is based. The appeal must be filed with the Commission within thirty (30) days after notice of the Director's action. The appeal must be accompanied by a filing fee of \$70.00, made payable to "Ohio Treasurer Josh Mandel," which the Commission, in its discretion, may reduce if by affidavit you demonstrate that payment of the full amount of the fee would cause extreme hardship. Notice of the filing of the appeal shall be filed with the Director within three (3) days of filing with the Commission. Ohio EPA requests that a copy of the appeal be served upon the Ohio Attorney General's Office, Environmental Enforcement Section. An appeal may be filed with the Environmental Review Appeals Commission at the following address:

Environmental Review Appeals Commission
 77 South High Street, 17th Floor
 Columbus, OH 43215

How to save money, reduce pollution and reduce energy consumption

The Ohio EPA is encouraging companies to investigate pollution prevention and energy conservation. Not only will this reduce pollution and energy consumption, but it can also save you money. If you would like to learn ways you can save money while protecting the environment, please contact our Office of Compliance Assistance and Pollution Prevention at (614) 644-3469. Additionally, all or a portion of the capital expenditures related to installing air pollution control equipment under this permit may be eligible for financing and State tax exemptions through the Ohio Air Quality Development Authority (OAQDA) under Ohio Revised Code Section 3706. For more information, see the OAQDA website: www.ohioairquality.org/clean_air

How to give us feedback on your permitting experience

Please complete a survey at www.epa.ohio.gov/survey.aspx and give us feedback on your permitting experience. We value your opinion.

How to get an electronic copy of your permit

This permit can be accessed electronically via the eBusiness Center: Air Services in Microsoft Word format or in Adobe PDF on the Division of Air Pollution Control (DAPC) Web page, www.epa.ohio.gov/dapc by clicking the "Search for Permits" link under the Permitting topic on the Programs tab.

If you have any questions, please contact Ohio EPA DAPC, Southeast District Office at (740)385-8501 or the Office of Compliance Assistance and Pollution Prevention at (614) 644-3469.

Sincerely,



Michael E. Hopkins, P.E.
Assistant Chief, Permitting Section, DAPC

Cc: Ohio EPA-SEDO



FINAL

**Division of Air Pollution Control
Permit-to-Install and Operate
for**

Ascent Resources - Utica, LLC - CHC Dutton (Wheeling)

Facility ID:	0607075002
Permit Number:	P0119643
Permit Type:	Initial Installation
Issued:	12/23/2015
Effective:	12/23/2015
Expiration:	4/8/2023



Division of Air Pollution Control
Permit-to-Install and Operate
for
Ascent Resources - Utica, LLC - CHC Dutton (Wheeling)

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Final Permit-to-Install and Operate
Ascent Resources - Utica, LLC - CHC Dutton (Wheeling)
Permit Number: P0119643
Facility ID: 0607075002
Effective Date: 12/23/2015

Authorization

Facility ID: 0607075002
Application Number(s): A0054428, A0054867
Permit Number: P0119643
Permit Description: Installation of new equipment at an existing Oil and Gas Well Pad.
Permit Type: Initial Installation
Permit Fee: \$1,850.00
Issue Date: 12/23/2015
Effective Date: 12/23/2015
Expiration Date: 4/8/2023
Permit Evaluation Report (PER) Annual Date: Apr 1 - Mar 31, Due May 15

This document constitutes issuance to:

Ascent Resources - Utica, LLC - CHC Dutton (Wheeling)
43125 Dutton Drive
Flushing, OH 43977

of a Permit-to-Install and Operate for the emissions unit(s) identified on the following page.

Ohio Environmental Protection Agency (EPA) District Office or local air agency responsible for processing and administering your permit:

Ohio EPA DAPC, Southeast District Office
2195 Front Street
Logan, OH 43138
(740)385-8501

The above named entity is hereby granted this Permit-to-Install and Operate for the air contaminant source(s) (emissions unit(s)) listed in this section pursuant to Chapter 3745-31 of the Ohio Administrative Code. Issuance of this permit does not constitute expressed or implied approval or agreement that, if constructed or modified in accordance with the plans included in the application, the described emissions unit(s) will operate in compliance with applicable State and federal laws and regulations.

This permit is granted subject to the conditions attached hereto.

Ohio Environmental Protection Agency


Craig W. Butler
Director



Authorization (continued)

Permit Number: P0119643

Permit Description: Installation of new equipment at an existing Oil and Gas Well Pad.

Permits for the following Emissions Unit(s) or groups of Emissions Units are in this document as indicated below:

Emissions Unit ID:	P007
Company Equipment ID:	NATURAL GAS COMPRESSOR ENGINE
Superseded Permit Number:	
General Permit Category and Type:	Not Applicable
Emissions Unit ID:	P008
Company Equipment ID:	COMBUSTOR EMISSIONS
Superseded Permit Number:	
General Permit Category and Type:	Not Applicable
Emissions Unit ID:	P009
Company Equipment ID:	GLYCOL STILL VENT- 2
Superseded Permit Number:	
General Permit Category and Type:	Not Applicable
Emissions Unit ID:	P010
Company Equipment ID:	Blowdowns
Superseded Permit Number:	
General Permit Category and Type:	Not Applicable



Final Permit-to-Install and Operate
Ascent Resources - Utica, LLC - CHC Dutton (Wheeling)
Permit Number: P0119643
Facility ID: 0607075002
Effective Date: 12/23/2015

A. Standard Terms and Conditions

1. What does this permit-to-install and operate ("PTIO") allow me to do?

This permit allows you to install and operate the emissions unit(s) identified in this PTIO. You must install and operate the unit(s) in accordance with the application you submitted and all the terms and conditions contained in this PTIO, including emission limits and those terms that ensure compliance with the emission limits (for example, operating, recordkeeping and monitoring requirements).

2. Who is responsible for complying with this permit?

The person identified on the "Authorization" page, above, is responsible for complying with this permit until the permit is revoked, terminated, or transferred. "Person" means a person, firm, corporation, association, or partnership. The words "you," "your," or "permittee" refer to the "person" identified on the "Authorization" page above.

The permit applies only to the emissions unit(s) identified in the permit. If you install or modify any other equipment that requires an air permit, you must apply for an additional PTIO(s) for these sources.

3. What records must I keep under this permit?

You must keep all records required by this permit, including monitoring data, test results, strip-chart recordings, calibration data, maintenance records, and any other record required by this permit for five years from the date the record was created. You can keep these records electronically, provided they can be made available to Ohio EPA during an inspection at the facility. Failure to make requested records available to Ohio EPA upon request is a violation of this permit requirement.

4. What are my permit fees and when do I pay them?

There are two fees associated with permitted air contaminant sources in Ohio:

PTIO fee. This one-time fee is based on a fee schedule in accordance with Ohio Revised Code (ORC) section 3745.11, or based on a time and materials charge for permit application review and permit processing if required by the Director.

You will be sent an invoice for this fee after you receive this PTIO and payment is due within 30 days of the invoice date. You are required to pay the fee for this PTIO even if you do not install or modify your operations as authorized by this permit.

Annual emissions fee. Ohio EPA will assess a separate fee based on the total annual emissions from your facility. You self-report your emissions in accordance with Ohio Administrative Code (OAC) Chapter 3745-78. This fee assessed is based on a fee schedule in ORC section 3745.11 and funds Ohio EPA's permit compliance oversight activities. For facilities that are permitted as synthetic minor sources, the fee schedule is adjusted annually for inflation. Ohio EPA will notify you when it is time to report your emissions and to pay your annual emission fees.

5. When does my PTIO expire, and when do I need to submit my renewal application?

This permit expires on the date identified at the beginning of this permit document (see "Authorization" page above) and you must submit a renewal application to renew the permit. Ohio EPA will send a renewal notice to you approximately six months prior to the expiration date of this permit. However, it is

very important that you submit a complete renewal permit application (postmarked prior to expiration of this permit) even if you do not receive the renewal notice.

If a complete renewal application is submitted before the expiration date, Ohio EPA considers this a timely application for purposes of ORC section 119.06, and you are authorized to continue operating the emissions unit(s) covered by this permit beyond the expiration date of this permit until final action is taken by Ohio EPA on the renewal application.

6. What happens to this permit if my project is delayed or I do not install or modify my source?

This PTIO expires 18 months after the issue date identified on the "Authorization" page above unless otherwise specified if you have not (1) started constructing the new or modified emission sources identified in this permit, or (2) entered into a binding contract to undertake such construction. This deadline can be extended by up to 12 months, provided you apply to Ohio EPA for this extension within a reasonable time before the 18-month period has ended and you can show good cause for any such extension.

7. What reports must I submit under this permit?

An annual permit evaluation report (PER) is required in addition to any malfunction reporting required by OAC rule 3745-15-06 or other specific rule-based reporting requirement identified in this permit. Your PER due date is identified in the Authorization section of this permit.

8. If I am required to obtain a Title V operating permit in the future, what happens to the operating provisions and PER obligations under this permit?

If you are required to obtain a Title V permit under OAC Chapter 3745-77 in the future, the permit-to-operate portion of this permit will be superseded by the issued Title V permit. From the effective date of the Title V permit forward, this PTIO will effectively become a PTI (permit-to-install) in accordance with OAC rule 3745-31-02(B). The following terms and conditions of this permit will no longer be applicable after issuance of the Title V permit: Section B, Term 1.b) and Section C, for each emissions unit, Term a)(2).

The PER requirements in this permit remain effective until the date the Title V permit is issued and is effective, and cease to apply after the effective date of the Title V permit. The final PER obligation will cover operations up to the effective date of the Title V permit and must be submitted on or before the submission deadline identified in this permit on the last day prior to the effective date of the Title V permit.

9. What are my obligations when I perform scheduled maintenance on air pollution control equipment?

You must perform scheduled maintenance of air pollution control equipment in accordance with OAC rule 3745-15-06(A). If scheduled maintenance requires shutting down or bypassing any air pollution control equipment, you must also shut down the emissions unit(s) served by the air pollution control equipment during maintenance, unless the conditions of OAC rule 3745-15-06(A)(3) are met. Any emissions that exceed permitted amount(s) under this permit (unless specifically exempted by rule) must be reported as deviations in the annual permit evaluation report (PER), including nonexempt excess emissions that occur during approved scheduled maintenance.

10. Do I have to report malfunctions of emissions units or air pollution control equipment? If so, how must I report?

If you have a reportable malfunction of any emissions unit(s) or any associated air pollution control system, you must report this to the [DO/LAA] in accordance with OAC rule 3745-15-06(B). Malfunctions that must be reported are those that result in emissions that exceed permitted emission levels. It is your responsibility to evaluate control equipment breakdowns and operational upsets to determine if a reportable malfunction has occurred.

If you have a malfunction, but determine that it is not a reportable malfunction under OAC rule 3745-15-06(B), it is recommended that you maintain records associated with control equipment breakdown or process upsets. Although it is not a requirement of this permit, Ohio EPA recommends that you maintain records for non-reportable malfunctions.

11. Can Ohio EPA or my local air agency inspect the facility where the emission unit(s) is/are located?

Yes. Under Ohio law, the Director or his authorized representative may inspect the facility, conduct tests, examine records or reports to determine compliance with air pollution laws and regulations and the terms and conditions of this permit. You must provide, within a reasonable time, any information Ohio EPA requests either verbally or in writing.

12. What happens if one or more emissions units operated under this permit is/are shut down permanently?

Ohio EPA can terminate the permit terms associated with any permanently shut down emissions unit. "Shut down" means the emissions unit has been physically removed from service or has been altered in such a way that it can no longer operate without a subsequent "modification" or "installation" as defined in OAC Chapter 3745-31.

You should notify Ohio EPA of any emissions unit that is permanently shut down by submitting a certification that identifies the date on which the emissions unit was permanently shut down. The certification must be submitted by an authorized official from the facility. You cannot continue to operate an emission unit once the certification has been submitted to Ohio EPA by the authorized official.

You must comply with all recordkeeping and reporting for any permanently shut down emissions unit in accordance with the provisions of the permit, regulations or laws that were enforceable during the period of operation, such as the requirement to submit a PER, air fee emission report, or malfunction report. You must also keep all records relating to any permanently shutdown emissions unit, generated while the emissions unit was in operation, for at least five years from the date the record was generated.

Again, you cannot resume operation of any emissions unit certified by the authorized official as being permanently shut down without first applying for and obtaining a permit pursuant to OAC Chapter 3745-31.

13. Can I transfer this permit to a new owner or operator?

You can transfer this permit to a new owner or operator. If you transfer the permit, you must follow the procedures in OAC Chapter 3745-31, including notifying Ohio EPA or the local air agency of the change in ownership or operator. Any transferee of this permit must assume the responsibilities of the transferor permit holder.

14. Does compliance with this permit constitute compliance with OAC rule 3745-15-07, "air pollution nuisance"?

This permit and OAC rule 3745-15-07 prohibit operation of the air contaminant source(s) regulated under this permit in a manner that causes a nuisance. Ohio EPA can require additional controls or modification of the requirements of this permit through enforcement orders or judicial enforcement action if, upon investigation, Ohio EPA determines existing operations are causing a nuisance.

15. What happens if a portion of this permit is determined to be invalid?

If a portion of this permit is determined to be invalid, the remainder of the terms and conditions remain valid and enforceable. The exception is where the enforceability of terms and conditions are dependent on the term or condition that was declared invalid.



Final Permit-to-Install and Operate
Ascent Resources - Utica, LLC - CHC Dutton (Wheeling)
Permit Number: P0119643
Facility ID: 0607075002
Effective Date: 12/23/2015

B. Facility-Wide Terms and Conditions

1. 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).
 - a) For the purpose of a permit-to-install document, the facility-wide terms and conditions identified below are federally enforceable with the exception of those listed below which are enforceable under state law only.
 - (1) 2.
 - b) For the purpose of a permit-to-operate document, the facility-wide terms and conditions identified below are enforceable under state law only with the exception of those listed below which are federally enforceable.
 - (1) None.
2. Modeling to demonstrate compliance with the "Toxic Air Contaminant Statute," ORC 3704.03(F)(4)(b), for this project was not necessary because for the emissions units not exempted from modeling per Ohio EPA Engineering Guide #69, maximum annual emissions for each toxic air contaminant, as defined in OAC rule 3745 114 01, will be less than 1.0 ton per year when controlled. OAC Chapter 3745 31 requires permittees to apply for and obtain a new or modified PTIO prior to making a "modification" as defined by OAC rule 3745 31 01. The permittee is hereby advised that changes in the composition of the materials or use of new materials that would cause the emissions of any toxic air contaminant to increase to above 1.0 ton per year may require the permittee to apply for and obtain a new PTIO.
3. The emissions of air contaminant sources that qualify as de minimis under OAC rule 3745-15-05, or are exempt under OAC rule 3745-31-03(A)(1) or (4), must be included in the total potential to emit (PTE) calculations for the facility.
4. The following emissions unit contained in this permit is(are) subject to 40 CFR Part 60, Subpart JJJJ: P007. The complete NSPS requirements, including the NSPS General Provisions may be accessed via the internet from the Electronic Code of Federal Regulations (e-CFR) website <http://ecfr.gpoaccess.gov> or by contacting the appropriate Ohio EPA District office or local air agency.
5. The Ohio EPA has determined that this facility is subject to the requirements of 40 CFR Part 63 Subpart ZZZZ, NESHAP for Stationary Reciprocating Internal Combustion Engines at Area Sources. Although Ohio EPA has determined that this GACT applies, at this time Ohio EPA does not have the authority to enforce this standard. Instead, US EPA has the authority to enforce this standard. Please be advised, that all requirements associated with this rule are in effect and shall be enforced by US EPA. For more information on the area source rules, please refer to the following US EPA website: <http://www.epa.gov/ttn/atw/area/arearules.html>.



Final Permit-to-Install and Operate
Ascent Resources - Utica, LLC - CHC Dutton (Wheeling)
Permit Number: P0119643
Facility ID: 0607075002
Effective Date: 12/23/2015

C. Emissions Unit Terms and Conditions



1. P007, NATURAL GAS COMPRESSOR ENGINE

Operations, Property and/or Equipment Description:

- a) One caterpillar 211 HP rich-burn 4-stroke natural gas compression engine equipped with non-selective catalytic reduction for control of NOx, CO, and VOC.
 - (1) 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).
 - (2) 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.
 - (3) 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.
- b) Applicable Emissions Limitations and/or Control Requirements
 - (1) The specific operation(s), property, and/or equipment that constitute each emissions unit along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures are identified below. Emissions from each unit shall not exceed the listed limitations, and the listed control measures shall be specified in narrative form following the table.

	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
a.	OAC rule 3745-31-05(A)(3), as effective June 30, 2008	Install an engine designed to meet 0.5 g NOx/hp-hr. Install an engine designed to meet 0.5 g CO/hp-hr. Install an engine designed to meet 0.5 g VOC/bhp-hr. Particulate emissions (PE) emissions shall not exceed 0.011 ton/month averaged over a twelve-month rolling period. See b)(2)(a) below.
b.	40 CFR Part 60, Subpart JJJJ In accordance with 40 CFR 60.4230,	The emissions limitations for NOx specified by this rule are less stringent than the emissions limitations established

	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
	<p>this engine is a Stationary Spark Ignition (SI) Internal Combustion Engine (ICE) that commenced construction after 6/12/2006 and was manufactured after July 1, 2008.</p> <p>40 CFR 60.4233(e)</p> <p>Table 1 to Part 60, Subpart JJJJ</p>	<p>pursuant to OAC rule 3745-31-05(A)(3) and OAC rule 3745-31-05(E). Emissions shall not exceed:</p> <p>2.0 g/Hp-hr, or 270 ppmvd at 15% O₂ for CO; and 0.7 g/Hp-hr, or 60 ppmvd at 15% O₂ for VOC.</p> <p>The emissions limitation specified by this rule for VOC and CO is less stringent than the emissions limitation established pursuant to OAC rule 3745-31-05(A)(3), until U.S. EPA approves the December 1, 2006 version of OAC rule 3745-31-05.</p>
c.	OAC rule 3745-31-05(A)(3)(a)(ii), as effective 6/30/2008	<p>The Best Available Technology (BAT) requirements under OAC rule 3745-05(A)(3) do not apply to the CO, PE or VOC emissions from this air contaminant source since the potential to emit is less than 10 tons/year.</p> <p>The Best Available Technology (BAT) requirements under OAC rule 3745-05(A)(3) do not apply to NO_x, emissions from this air contaminant source since the potential to emit is less than 10 tons/year taking into account the voluntary restriction from OAC rule 3745-31-05(E).</p> <p>See b)(2)(b) below.</p>
d.	OAC rule 3745-31-05(E), as effective 6/30/2008	<p>Emissions shall not exceed 1.02 tons of NO_x per year.</p> <p>Install and operate an engine with an NSCR or equivalent that meets <0.05 g/bhp-hr NO_x.</p>
e.	OAC rule 3745-17-11(B)(5)	Particulate Emission (PE) Shall not exceed 0.310 lb/MMBtu.
f.	OAC rule 3745-17-07(A)(1)	Visible particulate emissions from the exhaust stack serving this emissions unit shall not exceed 20 percent opacity, as a six-minute average, except as specified by rule.
g.	OAC rule 3745-18-06(G)	Pursuant to OAC rule 3745-18-06(A), this stationary internal combustion engine is exempt from the sulfur dioxide (SO ₂)



	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
		emission limitation specified by this rule during any calendar day in which natural gas is the only fuel burned.
h.	40 CFR Part 60, Subpart A	Table 3 to Subpart JJJJ of 40 CFR Part 60 – “Applicability of General Provisions to Subpart IIII” identifies the parts of the General Provisions in 40 CFR Part 60.1 – 19 that apply.

(2) Additional Terms and Conditions

- a. This Best Available Technology (BAT) emission limit applies until U.S. EPA approves Ohio Administrative Code (OAC) paragraph 3745-31-05(A)(3)(a)(ii) (the less than 10 tons per year BAT exemption) into the Ohio State Implementation Plan (SIP).
- b. These requirements apply once U.S. EPA approves OAC paragraph 3745-31-05(A)(3)(a)(ii) (the less than 10 tons per year BAT exemption) as part of the Ohio SIP.

c) Operational Restrictions

- (1) The permittee shall burn only natural gas in this engine.
- (2) The permittee shall comply with the applicable restrictions of 40 CFR Part 60, Subparts JJJJ, including the following sections:

60.4234	Operate and maintain engine in compliance with emission standards over the life of the engine.
60.4243(b)	Operate engine consistent with good air pollution control practices.
60.4243(g)	The air-to-fuel ratio controller used in conjunction with the catalytic reduction system must be maintained and operated appropriately in order to ensure proper operation of the engine and control device to minimize emissions at all times.

d) Monitoring and/or Recordkeeping Requirements

- (1) The permittee shall maintain documentation of the manufacturer’s recommendations, instructions, operating manuals for the engine and catalyst, along with documentation of any modifications deemed necessary by the permittee. These documents shall be maintained at the facility and shall be made available to the appropriate Ohio EPA District Office or local air agency upon request.



- (2) The permittee shall conduct periodic inspections of the engine’s catalyst to determine whether it is operating in accordance with the manufacturer’s recommendations, instructions, or operating manuals with any modifications deemed necessary by the permittee or operator. These inspections shall be performed at a frequency that shall be based upon the recommendation of the manufacturer and the permittee shall maintain a copy of the manufacturer’s recommended inspection frequency, and it shall be made available to the Ohio EPA upon request.
- (3) In addition to the recommended periodic inspections, not less than once each calendar year the permittee shall conduct a comprehensive inspection of the engine’s catalyst while the emissions unit is shut down and perform any needed maintenance and repair to ensure that it is operated in accordance with the manufacturer’s recommendations.
- (4) The permittee shall document each inspection (periodic and annual) of the engine catalysy and shall maintain the following information:
 - a. The date of the inspection;
 - b. A description of each/any problem identified and the date it was corrected;
 - c. A description of any maintenance and repairs performed; and
 - d. The name of the person who performed the inspection.

These records shall be maintained at the facility for not less than five years from the date the inspection and any necessary maintenance or repairs were completed and shall be made available to the appropriate Ohio EPA District Office or local air agency upon request.

- (5) The permittee shall comply with the applicable monitoring and record keeping requirements of 40 CFR Part 60, Subpart JJJJ, including the following sections:

60.4243(b)(2)(ii), and 60.4245(a),	Keep maintenance plan and records of conducted maintenance, and all notifications documentation that the engine meets the emissions standards
60.4231(e)	Maintain emissions warranty from the manufacturer of the engine and/or catalytic control device, documenting that the engine meets the emission standards identified in 40 CFR 60.4231(e); and a record of the settings at which the engine was maintained to support the emissions warranty;



e) Reporting Requirements

- (1) The reports required by this permit may be submitted through the Ohio EPA's eBusiness Center: Air Services online web portal: or they may be mailed as a hard copy to the appropriate district office or local air agency.
- (2) The permittee shall submit an annual Permit Evaluation Report (PER) to the Ohio EPA District Office or Local Air Agency by the due date identified in the Authorization section of this permit. The permit evaluation report shall cover a reporting period of no more than twelve months for each air contaminant source identified in this permit.
- (3) 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.
- (4) The permittee shall comply with the applicable restrictions of 40 CFR Part 60, Subpart JJJJ, including the following sections:

60.4245(d)	Submit performance test copies within 60 days after the test has been completed
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f) Testing Requirements

- (1) Compliance with the Emissions Limitations and/or Control Requirements specified in section b) of these terms and conditions shall be determined in accordance with the following methods:

a. Emissions Limitation:

PE emissions shall not exceed 0.011 tons per month averaged over a 12-month, rolling period.

Applicable Compliance Method:

PE= 0.03lb/hr x 8760 hr/year x 1 ton/2000 lbs x 1 year/12 months
 =0.011 ton per month averaged over a 12-month, rolling period.

Emissions Factor: is from permittee's application and derived from AP-42 Table 3.2-3.

b. Emissions Limitation:

NOx emissions shall not exceed 0.5 g/hp-hr.

Applicable Compliance Method:

Compliance shall be demonstrated based upon the emissions testing requirements specified in f)(2).

c. Emission Limitation:

CO emissions shall not exceed 0.5 g/hp-hr.

Applicable Compliance Method:

Compliance shall be demonstrated based upon the emissions testing requirements specified in f)(2).

d. Emission Limitation:

VOC emissions shall not exceed 0.5 g/hp-hr.

Applicable Compliance Method:

Compliance shall be demonstrated based upon the emissions testing requirements specified in f)(2).

e. Emissions Limitation:

1.0 grams NO_x/HP-hr or 82 ppmvd at 15% O₂

Applicable Compliance Method:

Compliance shall be demonstrated based upon the emissions testing requirements specified in f)(2).

f. Emissions Limitation:

2.0 grams CO/HP-hr or 270 ppmvd at 15% O₂

Applicable Compliance Method:

Compliance shall be demonstrated based upon the emissions testing requirements specified in f)(2).

g. Emission Limitation:

0.7 grams VOC/HP-hr or 60 ppmvd at 15% O₂

Applicable Compliance Method:

Compliance shall be demonstrated based upon the emissions testing requirements specified in f)(2).

h. Emission Limitation:

PE shall not exceed 0.310 lb/MMBtu actual heat input.



Applicable Compliance Method:

If required, particulate emissions shall be determined according to test Methods 1 - 5, as set forth in the "Appendix on Test Methods" in 40 CFR, Part 60 "Standards of Performance for New Stationary Sources". Alternative US EPA-approved test methods may be used with prior approval from Ohio EPA, Southeast District Office.

i. Emissions Limitation:

Visible PE from the stack serving this emissions unit shall not exceed 20% opacity as a six-minute average, except as provided by the rule.

Applicable Compliance Method:

If required, visible particulate emissions shall be determined according to USEPA Method 9.

- (2) The permittee shall comply with the applicable restrictions of 40 CFR Part 60, Subpart JJJJ, including the following sections:

60.4244	Procedures for performance testing
60.4243(f)	An initial performance test shall be performed to demonstrate compliance with the mass emissions limitations and design efficiencies.

The permittee has chosen to demonstrate compliance with the emission standards specified in §60.4233(e) and OAC rule 3745-31-05(A)(3) by performing a stack test, and therefore the permittee shall conduct, or have conducted, emission testing for this emissions unit in accordance with the procedures specified in 40 CFR 60.4244; 40 CFR Part 60, Subpart JJJJ Table 2; and the following requirements:

- a. An initial performance test shall be performed to demonstrate compliance with the mass emissions limitations and design efficiencies in f)(1)a.-e. of this permit within 60 days after achieving the maximum production rate at which the emissions unit will be operated, but not later than 180 days after initial startup of the emissions unit.
- b. If the stationary internal combustion engine is rebuilt, or undergoes major repair or maintenance the permittee shall conduct subsequent performance test.
- c. Each performance test must be conducted within 10% of 100% peak (or the highest achievable) load and according to the requirements in 40 CFR 60.8 and under the specific conditions that are specified by Table 2 of 40 CFR Part 60, Subpart JJJJ.



- d. Not later than 30 days prior to the proposed test date(s), the permittee shall submit an "Intent to Test" notification to the Ohio EPA, Southeast 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, Southeast District Office's refusal to accept the results of the emission test(s).
 - e. Personnel from the Ohio EPA, Southeast 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.
 - f. 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, Southeast 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, Southeast District Office.
- g) Miscellaneous Requirements
- (1) None.



2. P008, Enclosed Combustor

Operations, Property and/or Equipment Description:

- a) Enclosed Combustor with a maximum rating of 8.0 MMBtu/hr designed for 97% capture and 98% destruction. P008 will be controlling T001, permitted in P00117738.
 - (1) 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).
 - (2) 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.
 - (3) 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.
- b) Applicable Emissions Limitations and/or Control Requirements
 - (1) The specific operation(s), property, and/or equipment that constitute each emissions unit along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures are identified below. Emissions from each unit shall not exceed the listed limitations, and the listed control measures shall be specified in narrative form following the table.

	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
a.	ORC 3704.03(T) and OAC rule 3745-31-05(A)(3)	Carbon monoxide (CO) emissions shall not exceed 1.08 tons per month averaged over a 12-month, rolling period.
b.	Ohio Administrative Code (OAC) rule 3745-31-05(A)(3), as effective June 30, 2008	Nitrogen oxide (NOx) emissions from the flare shall not exceed 0.20 ton/month as a rolling, 12-month average. See b)(2)(a) below.
c.	OAC rule 3745-31-05(A)(3)(a)(ii), as effective June 30, 2008	The Best Available Technology (BAT) requirements under OAC rule 3745-31-05(A)(3) do not apply to NOX emissions from this air contaminant source since the potential to emit is less than 10 tons/yr. See b)(2)(b) below.

- (2) Additional Terms and Conditions
 - a. This Best Available Technology (BAT) emission limit applies until U.S. EPA approves Ohio Administrative Code (OAC) paragraph 3745-31-05(A)(3)(a)(ii) (the less than 10 tons per year BAT exemption) into the Ohio State Implementation Plan (SIP).
 - b. These requirements apply once U.S. EPA approves OAC paragraph 3745-31-05(A)(3)(a)(ii) (the less than 10 tons per year BAT exemption) as part of the Ohio SIP.
- c) Operational Restrictions
 - (1) The combustion device shall be operated with a flame present at all times when gasses are vented to it.
 - (2) An automatic flame ignition system shall be installed to meet one of the following requirements:
 - a. If using a pilot flame ignition system, the presence of a pilot flame shall be monitored using a thermocouple or other equivalent device to detect the presence of a flame. A pilot flame shall be maintained at all times in the flare's pilot light burner. If the pilot flame goes out and does not relight, then an alarm shall sound; or
 - b. If using an electric arc ignition system, the arcing of the electric arc ignition system shall pulse continually and a device shall be installed and used continuously monitor the electric arc ignition system.
 - (3) The permittee shall properly install, operate, and maintain a continuous temperature monitor and recorder that measure and record the temperature of the flare stack when the organic vapors are being routed to the flare, including periods of startup and shutdown. The monitoring equipment shall be installed, calibrated, operated, and maintained in accordance with the manufacturer's recommendations, instructions, and operating manual(s), with any modifications deemed necessary by the permittee. These records can be kept electronically, provided they can be made available to the appropriate Ohio EPA District Office or local air agency.
- d) Monitoring and/or Recordkeeping Requirements
 - (1) The permittee shall maintain documentation of the manufacturer's recommendations, instructions, or operating manuals for the flare, along with documentation of any modifications deemed necessary by the permittee. These documents shall be maintained at the facility and shall be made available to the appropriate Ohio EPA District Office or local air agency upon request.
 - (2) The permittee shall conduct periodic inspections of the flare to determine whether it is operating in accordance with the manufacturer's recommendations, instructions, or operating manuals with any modifications deemed necessary by the permittee or operator. These inspections shall be performed at a frequency that shall be based upon

the recommendation of the manufacturer and the permittee shall maintain a copy of the manufacturer's recommended inspection frequency, and it shall be made available to the Ohio EPA upon request.

- (3) In addition to the recommended periodic inspections, not less than once each calendar year, the permittee shall conduct a comprehensive inspection of the flare(s) while the emissions unit is shut down and reform any needed maintenance and repair to ensure that it is operated in accordance with the manufacturer's recommendations.
- (4) The permittee shall document each inspection (periodic and annual) of the flare and shall maintain the following information:
 - a. The date of the inspection;
 - b. A description of each/any problem identified and the date it was corrected;
 - c. A description of any maintenance and repairs performed; and
 - d. The name of the person who performed the inspection.

These records shall be maintained at the facility for not less than five years from the date the inspection and any necessary maintenance or repairs were completed and shall be made available to the appropriate Ohio EPA District Office or local air agency upon request.

- (5) The permittee shall maintain records that document the amount of gas vented to the flare in mmscf/month. These records shall be maintained for a period of not less than five years and shall be made available to the Ohio EPA upon request.
- (6) The permittee shall maintain records that document any time periods when the flare(s) were not in service when the emissions unit was in operation, as well as a record of all operations during which the flare were not operated according to the manufacturer's recommendations with any documented modifications made by the permittee. These records shall be maintained for a period of not less than five years and shall be made available to the Ohio EPA upon request.

e) Reporting Requirements

- (1) The reports required by this permit may be submitted through the Ohio EPA's eBusiness Center: Air Services online web portal; or they may be mailed as a hard copy to the appropriate district office or local air agency.
- (2) The permittee shall submit an annual Permit Evaluation Report (PER) to the Ohio EPA District Office or Local Air Agency by the due date identified in the Authorization section of this permit. The permit evaluation report shall cover a reporting period of no more than twelve months for each air contaminant source identified in this permit.



f) Testing Requirements

(1) Compliance with the Emissions Limitations and/or Control Requirements specified in section b) of these terms and conditions shall be determined in accordance with the following methods:

a. Emission Limitation:

CO emissions from the flare shall not exceed 1.08 tons/month as a rolling, 12-month average.

Applicable Compliance Method:

CO (Tons/month) = the maximum heat input rating of the combustion unit x emission factor x 8,760 hours of operation per year x 1 ton/ 2,000lbs x year/12 months

$$= 8.0 \text{ MMBtu/hr} \times 0.370 \text{ lb/MMBtu} \times 8760 \text{ hr/year} \times 1 \text{ ton/} 2,000 \text{ lbs} \times \text{year/12 months}$$

$$= 1.08 \text{ tons/month}$$

Emission factors obtained from permittee's application and obtained from AP-42 13.5-1.

Ongoing compliance shall be demonstrated using the above equation and the recordkeeping in d) above.

b. Emissions Limitations:

NO_x emissions from the flare shall not exceed 0.20 tons/month as a rolling, 12-month average.

Applicable Compliance Method:

The emissions limitation was derived by the following calculation:

NO_x (Tons/month) = the maximum heat input rating of the combustion unit X emission factor x 8,760 hours of operation per year x 1 ton/2,000 lbs x year/12 months

$$= 8.0 \text{ MMBtu/hr} \times 0.068 \text{ lb/MMBtu} \times 8760 \text{ hr/year} \times 1 \text{ ton/} 2,000 \text{ lbs} \times \text{year/12 months}$$

$$= 0.20 \text{ ton/month}$$

Emission factors obtained from permittee's application and obtained from AP-42 13.5-1.



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Ongoing compliance shall be demonstrated using the above equation and the recordkeeping in d) above.

- g) Miscellaneous Requirements
 - (1) None.

3. P009, Dehydration Units

Operations, Property and/or Equipment Description:

Two glycol dehydration units with a maximum production of 40 MMscf/day, with 100% capture and 98% control efficiency for VOC; each unit includes a contact tower and glycol dehydration unit, reboiler, and gas-condensate-glycol (GCG) separator (flash separator); each unit is vented to separate JATCO-BTEX Elimination System.

- a) 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.
- b) Applicable Emissions Limitations and/or Control Requirements
 - (1) The specific operation(s), property, and/or equipment that constitute each emissions unit along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures are identified below. Emissions from each unit shall not exceed the listed limitations, and the listed control measures shall be specified in narrative form following the table.

	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
a.	OAC rule 3745-31-31-05(A)(3), as effective June 30, 2008	Install two dehydration units, designed for 100% capture and 98% destruction of emissions of Volatile Organic Compounds (VOC) emissions (excludes methane and ethane), each equipped with Benzene, Toluene, Ethylbenzene, and Xylene (BTEX) Elimination Control Systems. See b)(2)a. below
b.	OAC rule 3745-31-05(A)(3)(a)(ii), as effective June 30, 2008	The Best Available Technology (BAT) requirements under OAC rule 3745-31-05(A)(3) do not apply to VOC from this air contaminant source since the calculated annual emission rate is less than 10 tons/yr taking into account the voluntary restriction from OAC rule 3745-31-05(E). See b)(2)(b) below.



	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
c.	OAC rule 3745-31-05(E), as effective June 30,2008	<p>VOC emissions shall not exceed 0.90 tons/year.</p> <p>Install and operate two dehydration units, designed for 100% capture and 98% destruction of emissions of Volatile Organic Compounds (VOC) emissions (excludes methane and ethane), each equipped with Benzene, Toluene, Ethylbenzene, and Xylene (BTEX) Elimination Control Systems.</p> <p>Total HAPs shall not exceed 0.42 TPY.</p> <p>Toluene shall not exceed 0.18 TPY.</p> <p>Install and operate two dehydration units, designed for 100% capture and 98% destruction of emissions of Hazardous Air Pollutant (HAP) emissions (excludes methane and ethane), each equipped with Benzene, Toluene, Ethylbenzene, and Xylene (BTEX) Elimination Control Systems.</p>
d.	<p>40 CFR Part 63, Subpart HH (40 CFR 63.760-63.779)</p> <p>[In accordance with 40 CFR 63.760(a)(2)-(3), this emissions unit processes, upgrades, or stores natural gas or hydrocarbon liquids prior to the point of custody transfer from the facility.]</p>	<p>See b)(2)c. below.</p> <p>[63.765(b)(1)(ii)]</p>
e.	40 CFR 63.1-15 (40 CFR 63.764)	Table 2 of Subpart HH of 40 CFR Part 63 shows which parts of the General Provisions in 40 CFR 63.1-15 apply.

(2) Additional Terms and Conditions

- a. This Best Available Technology (BAT) emission limit applies until U.S. EPA approves Ohio Administrative Code (OAC) paragraph 3745-31-05(A)(3)(a)(ii) (the less than 10 tons per year BAT exemption) into the Ohio State Implementation Plan (SIP).

- b. These requirements apply once U.S. EPA approves OAC paragraph 3745-31-05(A)(3)(a)(ii) (the less than 10 tons per year BAT exemption) as part of the Ohio SIP.
 - c. The dehydration unit located at this facility is subject to 40 CFR Part 63, Subpart HH, NESHAP from Oil and Natural Gas Production Facilities. The dehydration units at this facility are exempt per 63.764(e)(ii) from the requirements of 63.764(d)(2) because actual average emissions of benzene from the glycol dehydration unit process venting to the atmosphere are less than 0.90 Mg/yr, as determined by the procedures specified in 63.772(b)(2) of 40 CFR 63, Subpart HH.
- c) **Operational Restrictions**
- (1) The permittee shall comply with the applicable restriction requirements of 40 CFR Part 63, Subpart HH, including the following sections:
 - a. A BTEX elimination system is used to control emissions for the dehydrator:
 - i. The condenser shall be operated at all times when gases are vented to it.
 - ii. The condenser must be equipped with a continuous temperature monitoring device that continuously monitors and records the dehydration still vent temperature.
 - iii. The condenser, temperature monitoring device and recorder shall be installed, calibrated, operated, and maintained in accordance with the manufacturer's recommendations, instructions, and operating manuals.
- d) **Monitoring and/or Recordkeeping Requirements**
- (1) The permittee shall maintain documentation of the manufacturer's recommendations, instructions, or operating manuals for the BTEX, along with documentation of any modifications deemed necessary by the permittee. These documents shall be maintained at the facility and shall be made available to the appropriate Ohio EPA District Office or local air agency upon request.
 - (2) The permittee shall conduct periodic inspections of the BTEX to determine whether it is operating in accordance with the manufacturer's recommendations, instructions, or operating manuals with any modifications deemed necessary by the permittee or operator. These inspections shall be performed at a frequency that shall be based upon the recommendation of the manufacturer and the permittee shall maintain a copy of the manufacturer's recommended inspection frequency, and it shall be made available to Ohio EPA upon request.
 - (3) In addition to the recommended periodic inspections, not less than once each calendar year, the permittee shall conduct a comprehensive inspection of the BTEX while the emissions unit is shut down and perform any needed maintenance and repair to ensure that it is operated in accordance with the manufacturer's recommendations.



- (4) The permittee shall document each inspection (periodic and annual) of the enclosed combustors and shall maintain the following information:
 - a. the date of the inspection;
 - b. a description of each/any problem identified and the date it was corrected;
- (1) Where a condenser (or BTEX elimination system) is used to control the dehydration process vent(s), the permittee shall:
 - a. monitor and record the temperature of the condenser each day that an operator is present at the facility; and
 - b. record all periods of time when the condenser is not operating to control the emissions from the dehydration process vent(s).
- (a) The permittee shall comply with the applicable monitoring and record keeping requirements of 40 CFR Part 63, Subpart HH, including the following sections:

63.760(a)(1)(ii)	Maintain records of the annual facility natural gas or hydrocarbon liquid throughput for each year.
63.774(d)(1)(ii) and 63.772(b)(2)	Maintain records of the actual average benzene emissions per year as determined in accordance with 63.772(b)(2).

e) Reporting Requirements

- (1) The reports required by this permit may be submitted through the Ohio EPA's eBusiness Center: Air Services online web portal; or they may be mailed as a hard copy to the appropriate district office or local air agency.
- (2) 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.
- (3) The permittee shall submit an annual Permit Evaluation Report (PER) to the Ohio EPA District Office or Local Air Agency by the due date identified in the Authorization section of this permit. The permit evaluation report shall cover a reporting period of no more than twelve months for each air contaminant source identified in this permit.
- (4) The permittee shall comply with the applicable reporting requirements required under 40 CFR Part 63, Subpart HH, including the following sections:

63.775(c)(8)	Reporting exemption
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f) Testing Requirements

- (1) Compliance with the Emissions Limitations and/or Control Requirements specified in section b) of these terms and conditions shall be determined in accordance with the following methods:

a. Design Efficiency:

Install two Dehydration Units, designed for 100% capture and 98% control of emissions of VOC emissions (excludes methane and ethane), each equipped with BTEX Elimination Control Systems.

Install and operate two dehydration units, designed for 100% capture and 98% destruction of emissions of Hazardous Air Pollutant (HAP) emissions (excludes methane and ethane), each equipped with Benzene, Toluene, Ethylbenzene, and Xylene (BTEX) Elimination Control Systems.

Applicable Compliance Method:

Compliance is demonstrated by the manufacturer's guaranteed specifications for 100% capture and 98% control efficiency.

b. Emissions Limitation:

VOC emissions shall not exceed 0.90 tons/year.

Applicable Compliance Method:

The permittee may determine the VOC emissions (excludes methane and ethane) using the GRI-GLYCalc™ model, Version 3.0 or higher, and the procedures presented in the associated GRI-GLYCalc™ Technical Reference Manual. Inputs to the model shall be representative of actual operating conditions of the glycol dehydration unit(s) and may be determined using the procedures documented in the Gas Research Institute (GRI) report entitled "Atmospheric Rich/Lean Method for Determining Glycol Dehydrator Emissions" (GRI-95/0368.1).

The VOC emissions limitation is based on a maximum glycol circulation rate of 3.5 gal TEG/lb water, a maximum natural gas flow of 40 MMscf/day, a VOC destruction efficiency of $\geq 98\%$ and the worst case pollutant concentrations from representative gas analysis of the inlet gas, as presented in the permittee's application.

c. Emission Limitation:

Total HAPs shall not exceed 0.42 TPY.

Applicable Compliance Method:

The permittee shall determine compliance with the tpy toluene and total HAPs emissions (excludes methane and ethane) by using the GRI-GLYCalc™ model,



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Version 3.0 or higher, and the procedures presented in the associated GRI-GLYCalc™ Technical Reference Manual or other Ohio EPA approved software. Inputs to the model shall be representative of actual operating conditions of the glycol dehydration unit(s) and may be determined using the procedures documented in the Gas Research Institute (GRI) report entitled "Atmospheric Rich/Lean Method for Determining Glycol Dehydrator Emissions" (GRI-95/0368.1).

- g) Miscellaneous Requirements
 - (1) None.



4. P010, Blowdowns

Operations, Property and/or Equipment Description:

- a) Equipment maintenance and blowdowns with a maximum of 0.001 MMscf/blowdown with a maximum of 100 events per year.
 - (1) 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).
 - (2) 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.
 - (3) 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.
- b) Applicable Emissions Limitations and/or Control Requirements
 - (1) The specific operation(s), property, and/or equipment that constitute each emissions unit along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures are identified below. Emissions from each unit shall not exceed the listed limitations, and the listed control measures shall be specified in narrative form following the table.

	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
a.	Ohio Administrative Code (OAC) rule 3745-31-05(A)(3), as effective June 30, 2008	Fugitive volatile organic compound (VOC) emissions shall not exceed 0.0042 ton per month averaged over a 12-month, rolling period. See b)(2)(a) below.
b.	OAC rule 3745-31-05(A)(3)(a)(ii), as effective June 30, 2008	The Best Available Technology (BAT) requirements under OAC rule 3745-31-05(A)(3) do not apply to the VOC emissions from this air contaminant source since the potential to emit is less than 10 tons/year. See b)(2)(b) below.

(2) Additional Terms and Conditions

- a. This Best Available Technology (BAT) emission limit applies until U.S. EPA approves Ohio Administrative Code (OAC) paragraph 3745-31-05(A)(3)(a)(ii) (the less than 10 tons per year BAT exemption) into the Ohio State Implementation Plan (SIP).
- b. These requirements apply once U.S. EPA approves OAC paragraph 3745-31-05(A)(3)(a)(ii) (the less than 10 tons per year BAT exemption) as part of the Ohio SIP.

c) Operational Restrictions

- (1) The permittee shall minimize the frequency and size of blowdowns by conducting routine operation and maintenance activities in a manner consistent with safety and good air pollution control practices.

d) Monitoring and/or Recordkeeping Requirements

- (a) The permittee shall maintain the following records on a monthly basis:
 - a. The date, number, and type of each blowdown event;
 - b. Total volume of gas emitted from each blowdown event;
 - c. Total volume of gas emitted from all blowdown events as a rolling, 12-month average;
 - d. Gas density derived using actual stream sampling data (e.g., gas chromatography); and,
 - e. Total VOC emissions per month as a rolling, 12-month average.

e) Reporting Requirements

- (b) The reports required by this permit may be submitted through the Ohio EPA's eBusiness Center: Air Services online web portal; or they may be mailed as a hard copy to the appropriate district office or local air agency.
- (1) The permittee shall submit an annual Permit Evaluation Report (PER) to the Ohio EPA District Office or Local Air Agency by the due date identified in the Authorization section of this permit. The permit evaluation report shall cover a reporting period of no more than twelve months for each air contaminant source identified in this permit.

f) Testing Requirements

- (1) Compliance with the Emissions Limitations and/or Control Requirements specified in section b) of these terms and conditions shall be determined in accordance with the following methods:



a. Emission Limitation:

VOC emissions shall not exceed 0.0042 ton/month as a rolling, 12-month average.

Applicable Compliance Method:

The VOC emissions limitation was derived by the calculation below using the inputs provided in the permittee's application. Ongoing compliance with the VOC emissions limitation shall be determined by the calculation below and the records as required in d)(1) of this permit.

Blowdown Emissions (Facility and Interconnect):

$$\frac{V \text{ scf}}{\text{yr}} * \frac{D \text{ lb}}{\text{scf}} * VOC * \frac{\text{ton}}{2,000 \text{ lb}} * \frac{\text{yr}}{12 \text{ m rolling}} \leq 0.0042 \frac{\text{ton}}{12 \text{ m rolling}}$$

Where: V= annual gas release

D= gas density, derived from gas sampling

VOC= VOC fraction

g) Miscellaneous Requirements

(1) None.