

Facility ID: 1652000021 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 B009](#)
- [Go to Part II for Emissions Unit B010](#)
- [Go to Part II for Emissions Unit B014](#)
- [Go to Part II for Emissions Unit P002](#)
- [Go to Part II for Emissions Unit P003](#)

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

Facility ID: 1652000021 Emissions Unit ID: B009 Issuance type: Final State Permit To Operate

[Go to the top of this document](#)

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 pipeline heater (natural gas-fired, indirect heating, rated at 12 mmBtu/hr, particulate emissions (PE) uncontrolled)	OAC rule 3745-31-05(A)(3) (PTI 16-196)	The requirements established pursuant to this rule are equivalent to the requirements of OAC rules 3745-17-07(A) and 3745-17-10(B)(1).
	OAC rule 3745-17-07(A)	20% opacity as a 6-minute average, except as provided by rule
	OAC rule 3745-17-10(B)(1)	0.020 lb PE/mmBtu actual heat input

2. Additional Terms and Conditions

- (a) The PE limit from OAC rule 3745-17-10(B)(1) is greater than the potential to emit for this emissions unit. Therefore, no monitoring, record keeping, or reporting requirements are necessary to ensure ongoing compliance with this emissions limit.

However, the permittee shall apply for and, if required, obtain a final permit to install prior to equipment replacement or any proposed change such as equipment modification that would increase the potential to emit for any air pollutant. OAC Chapter 3745-18 does not establish an SO2 emissions limitation for this emissions unit because the emissions unit burns only natural gas.

B. Operational Restrictions

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

C. Monitoring and/or Record Keeping Requirements

1. None

D. Reporting Requirements

1. None

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:
Emission Limitation: 20% opacity as a 6-minute average

Applicable Compliance Method: Compliance shall be determined by visible particulate emission evaluations performed using the procedures specified in USEPA Method 9.
Emission Limitation: 0.020 lb PE/mmBtu actual heat input

Applicable Compliance Method:

The permittee may use the AP-42, 7/98, Table 1.4-2 emission factor of 0.001860 pound of particulates (filterable) per million Btu of actual heat input to demonstrate compliance.

If required, compliance shall be determined in accordance with the requirements in 40 CFR Part 60, Appendix A, Method 5 and the methods and procedures specified in OAC rule 3745-17-03(B)(10).

F. Miscellaneous Requirements

- 1. None

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

Facility ID: 1652000021 Emissions Unit ID: B010 Issuance type: Final State Permit To Operate

[Go to the top of this document](#)

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 pipeline heater (natural gas-fired, indirect heating, rated at 14 mmBtu/hr, particulate emissions (PE) uncontrolled)	OAC rule 3745-31-05(A)(3) (PTI 16-196)	The requirements established pursuant to this rule are equivalent to the requirements of OAC rules 3745-17-07(A) and 3745-17-10(B)(1).
	OAC rule 3745-17-07(A)	20% opacity as a 6-minute average, except as provided by rule
	OAC rule 3745-17-10(B)(1)	0.020 lb PE/mmBtu actual heat input

2. Additional Terms and Conditions

- (a) The PE limit from OAC rule 3745-17-10(B)(1) is greater than the potential to emit for this emissions unit. Therefore, no monitoring, record keeping, or reporting requirements are necessary to ensure ongoing compliance with this emissions limit.

However, the permittee shall apply for and, if required, obtain a final permit to install prior to equipment replacement or any proposed change such as equipment modification that would increase the potential to emit for any air pollutant.

OAC Chapter 3745-18 does not establish an SO2 emissions limitation for this emissions unit because the emissions unit burns only natural gas.

B. Operational Restrictions

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

C. Monitoring and/or Record Keeping Requirements

- 1. None

D. Reporting Requirements

- 1. None

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:
Emission Limitation: 20% opacity as a 6-minute average

Applicable Compliance Method: Compliance shall be determined by visible particulate emission evaluations performed using the procedures specified in USEPA Method 9.
Emission Limitation: 0.020 lb PE/mmBtu actual heat input

Applicable Compliance Method:

The permittee may use the AP-42, 7/98, Table 1.4-2 emission factor of 0.001860 pound of particulates (filterable) per million Btu of actual heat input to demonstrate compliance.

If required, compliance shall be determined in accordance with the requirements in 40 CFR Part 60, Appendix A, Method 5 and the methods and procedures specified in OAC rule 3745-17-03(B)(10).

F. Miscellaneous Requirements

1. None

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

Facility ID: 1652000021 Emissions Unit ID: B014 Issuance type: Final State Permit To Operate

[Go to the top of this document](#)

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-fired, stationary, small internal combustion engine (229 BHP rated power output, 1.9 mmBtu/hr maximum rated heat input, 4-cycle lean-burn design, driving an emergency electrical generator, particulate emissions (PE), nitrogen oxides (NOx), and total hydrocarbons (THC) uncontrolled)	OAC rule 3745-31-05(A)(3) (PTI 16-02040)	4.8 lbs/hr & 21 tpy of NOx
		0.86 lb/hr & 3.8 tpy of THC
		10% opacity from the stack, as a 6-minute average
	OAC rule 3745-17-11(B)(5)(a) OAC rule 3745-17-07(A)	0.310 lb PE/mmBtu actual heat input The visible particulate emissions limitation required by OAC rule 3745-17-07(A) is less stringent than the visible particulate emissions limitation established pursuant to OAC rule 3745-31-05(A)(3).
	OAC rule 3745-18-06(G)	Exempt, pursuant to OAC rule 3745-18-06(B)

2. **Additional Terms and Conditions**
 - (a) The NOx and THC emissions limits established pursuant to OAC rule 3745-31-05(A)(3) reflect the potential to emit for this emissions unit. In addition, the PE limit from OAC rule 3745-17-11(B)(5)(a) is greater than the potential to emit for this emissions unit. Therefore, no monitoring, record keeping, or reporting requirements are necessary to ensure ongoing compliance with the NOx, THC, and PE emissions limits.

However, the permittee shall apply for and, if required, obtain a final permit to install prior to equipment replacement or any proposed change such as equipment modification that would increase the potential to emit for any air pollutant.

B. Operational Restrictions

1. This emissions unit shall be limited to only natural gas as fuel.

C. Monitoring and/or Record Keeping Requirements

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

D. Reporting Requirements

1. The permittee shall submit deviation (excursion) reports that identify all periods of time 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.
2. The deviation reports shall be submitted in accordance with the requirements specified in Part I - General Term and Condition 3.

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, as noted:
Emission Limitation: 10% opacity, as a 6-minute average

Applicable Compliance Method: If required, compliance shall be determined by visible particulate emission evaluations performed using the procedures specified in USEPA Method 9.
Emission Limitation: 0.310 lb PE/mmBtu actual heat input

Applicable Compliance Method:

The permittee may use the AP-42, 7/00, Table 3.2-3 emission factor of 0.0000771 pound of particulates (filterable) per million Btu of actual heat input to demonstrate compliance.

If required, compliance shall be determined in accordance with the requirements in 40 CFR Part 60, Appendix A, Method 5 and the methods and procedures specified in OAC rule 3745-17-03(B)(10).
Emission Limitations: 4.8 lbs/hr & 21 tpy of NOx

Applicable Compliance Method: The permittee may demonstrate compliance with the above limitations based upon the following calculations of the potential to emit:

$$H = PN(1 \text{ pound}/453.6 \text{ grams}) = 4.8 \text{ lbs/hr of NOx}$$

$$Y = H(8760 \text{ hours/year})(1 \text{ ton}/2000 \text{ pounds}) = 21 \text{ tpy of NOx}$$

where:

H = hourly potential to emit;
Y = yearly potential to emit;
P = 229 BHP [internal combustion engine rated output power]; and
N = 9.5 GRAMS/BHP-HR [manufacturer's NOx emission factor].

If required, compliance with the hourly NOx emissions limit shall be determined in accordance with the requirements in 40 CFR Part 60, Appendix A, Method 7E.
Emission Limitations: 0.86 lb/hr & 3.8 tpy of THC

Applicable Compliance Method: The permittee may demonstrate compliance with the above limitations based upon the following calculations of the potential to emit:

$$H = PT(1 \text{ pound}/453.6 \text{ grams}) = 0.86 \text{ lb/hr of THC}$$

$$Y = H(8760 \text{ hours/year})(1 \text{ ton}/2000 \text{ pounds}) = 3.8 \text{ tpy of THC}$$

where:

H = hourly potential to emit;
Y = yearly potential to emit;
P = 229 BHP [internal combustion engine rated output power]; and
T = 1.7 GRAMS/BHP-HR [manufacturer's THC emission factor].

If required, compliance with the hourly THC emissions limit shall be determined in accordance with the requirements in 40 CFR Part 60, Appendix A, Method 25 or Method 25A.

F. Miscellaneous Requirements

1. None

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

Facility ID: 1652000021 Emissions Unit ID: P002 Issuance type: Final State Permit To Operate

[Go to the top of this document](#)

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>
glycol natural gas dehydrator (absorber tower & regenerator still w/ 0.6 mmBtu/hr natural	OAC rule 3745-31-05(A)(3) (PTI 16-1627)	2.0 lbs/hr & 8.8 tpy of OCs

gas-fired reboiler, air emissions of organic compounds (OCs) vented to and controlled by a 2.3 mmBtu/hr natural gas-assisted flare common to P003, particulate emissions (PE) uncontrolled)

OAC rule 3745-17-07(A)	20% opacity as a 6-minute average, except as provided by rule (applies to the reboiler)
OAC rule 3745-17-10(B)(1)	0.020 lb PE/mmBtu actual heat input (applies to the reboiler)
OAC rule 3745-21-07(G)	Exempt from the requirements of OAC rule 3745-21-07(G)(2) in accordance with OAC rule 3745-21-07(G)(9). The dehydrator is designed to use only glycol which is not a photochemically reactive material, as defined in OAC rule 3745-21-01(C)(5).
OAC rule 3745-35-07	In order to maintain this facility as a minor facility, i.e., below the major source thresholds for emissions of hazardous air pollutants (HAPs), the permittee shall continuously operate and maintain a flare, which satisfies all of the requirements of Section A.2 below, a capture (collection) system, and any other equipment necessary, in accordance with the manufacturer's recommendations, instructions, and operating manual (s), to control and limit emissions of OCs from P002 and P003 to the emissions limitations established pursuant to OAC rule 3745-31-05(A)(3).

2. Additional Terms and Conditions

- (a) OAC Chapter 3745-18 does not establish an SO₂ emissions limitation for this emissions unit because the emissions unit burns only natural gas. This emissions unit shall be equipped with a flare to control organic compound emissions. The flare shall be fired with natural gas and shall be operated with a 98% destruction efficiency. The flare shall be designed and operated in a manner that will ensure no visible emissions, as determined by 40 CFR 60.18(f), except for periods not to exceed a total of 5 minutes during any 2 consecutive hours. The flare shall be operated at all times when emissions may be vented to it, as determined by methods specified in 40 CFR 60.18(f). The flare shall be used only when the net heating value of the gas being combusted is 200 Btu/scf or greater. The net heating value of the gas being combusted shall be determined by the methods specified in 40 CFR 60.18(f). The flare shall be designed for and operated with an exit velocity that satisfies the requirements of 40 CFR 60.18.

B. Operational Restrictions

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

C. Monitoring and/or Record Keeping Requirements

- 1. The flare shall be monitored for the presence of a pilot flame using a thermocouple or any other equivalent device to detect the presence of a flame.
- 2. The permittee shall record the following information each month:
 - a. all periods during which there was no pilot flame; and
 - b. the operating times for the flare, monitoring equipment, and the associated emissions unit.
- 3. For each day a fuel other than natural gas is burned in this emissions unit, the permittee shall maintain a record of the type and quantity of fuel burned.
- 4. The permittee shall perform bi-weekly checks, when the emissions unit is in operation and when the weather conditions allow, for any visible particulate emissions from the stacks serving this emissions unit including the flare. The presence or absence of any visible emissions shall be noted in an operations log. If visible emissions are observed, the permittee shall also note the following in the operations log:
 - a. the location and color of the emissions;
 - b. whether the emissions are representative of normal operations;
 - c. if the emissions are not representative of normal operations, the cause of the abnormal emissions;
 - d. the total duration of any visible emission incident; and
 - e. any corrective actions taken to eliminate the visible emissions.

If, during any bi-weekly check, the permittee observes visible emissions from the flare, the permittee shall monitor the visible emissions for a minimum period of 10 minutes in accordance with the methods and procedures specified in 40 CFR Part 60, Appendix A, Method 22 and record the results in an operations log.

D. Reporting Requirements

- 1. The permittee shall report the use of any material other than glycol in this emissions unit within 30 days after the occurrence.
- 2. The permittee shall submit semiannual deviation (excursion) reports that identify all periods during which the pilot flame or flare was not functioning properly, and the emissions unit was not immediately shut down. The reports shall include the date, time, and duration of each such period, and shall be submitted by January 31 and July 31 of each year and shall cover the previous six calendar months.

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 submit semiannual written reports that (a) identify all days during which any visible particulate emissions were observed from the stacks serving this emissions unit, (b) include the results of all Method 22, visible emission readings performed for the flare, and (c) describe any corrective actions taken to eliminate the visible particulate emissions. These reports shall be submitted by January 31 and July 31 of each year and shall cover the previous 6-month period.
5. The deviation reports shall be submitted in accordance with the requirements specified in Part I - General Term and Condition 3.

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, as noted:
Emission Limitations: 2.0 lbs/hr & 8.8 tpy of OCs

Applicable Compliance Method: OC emissions shall be determined by employing the Gas Research Institute's simulation program GLYCalc version 3 or equivalent, wet gas analyses of the gases from the Wellington and Lorain storage fields, AP-42 emission factors for products of combustion, and an assumed destruction efficiency of 98% for the flare.

Emission tests may be required, in accordance with test procedures approved by the Director, to demonstrate compliance with the hourly emission limitation.
Emission Limitation: The flare shall be operated with a 98% control efficiency.

Applicable Compliance Method: If the flare complies with the control requirements specified in Sections A.2.c through A.2.f above, compliance with the 98% control efficiency requirement will be assumed.
Emission Limitation: The flare shall be designed and operated in a manner that will ensure no visible emissions, except for periods not to exceed a total of 5 minutes during any 2 consecutive hours.

Applicable Compliance Method: Compliance shall be determined through visible emission observations performed in accordance with 40 CFR Part 60, Appendix A, Method 22 and the procedures specified in 40 CFR Part 60.18(f).
Emission Limitation: 20% opacity as a 6-minute average, except as provided by rule (applies to the reboiler)

Applicable Compliance Method: Compliance shall be determined by visible particulate emission evaluations performed using the procedures specified in USEPA Method 9.
Emission Limitation: 0.020 lb PE/mmBtu actual heat input

Applicable Compliance Method:

The permittee may use the AP-42, 7/98, Table 1.4-2 emission factor of 0.001860 pound of particulates (filterable) per million Btu of actual heat input to demonstrate compliance.

If required, compliance shall be determined in accordance with the requirements in 40 CFR Part 60, Appendix A, Method 5 and the methods and procedures specified in OAC rule 3745-17-03(B)(10).

F. Miscellaneous Requirements

1. Modeling to demonstrate compliance with the Ohio EPA's "Air Toxic Policy" was not necessary because the emissions unit's maximum annual emissions for each toxic compound will be less than 1.0 ton. OAC Chapter 3745-31 requires permittees to apply for and obtain a new or modified permit to install 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 pollutant that has a listed TLV to increase to above 1.0 ton per year may require the permittee to apply for and obtain a new permit to install.
2. Except for F.1 of these special terms and conditions, all of the terms and conditions of this permit are federally enforceable, pursuant to OAC rule 3745-35-07.

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

Facility ID: 1652000021 Emissions Unit ID: P003 Issuance type: Final State Permit To Operate

[Go to the top of this document](#)

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>
glycol natural gas dehydrator (absorber tower & regenerator still w/ 0.6 mmBtu/hr natural gas-fired reboiler, air emissions of organic compounds (OCs) vented to and controlled by a 2.3 mmBtu/hr natural gas-assisted flare common to P002, particulate emissions (PE) uncontrolled)	OAC rule 3745-31-05(A)(3) (PTI 16-1627)	2.0 lbs/hr & 8.8 tpy of OCs
	OAC rule 3745-17-07(A)	20% opacity as a 6-minute average, except as provided by rule (applies to the reboiler)
	OAC rule 3745-17-10(B)(1)	0.020 lb PE/mmBtu actual heat input (applies to the reboiler)
	OAC rule 3745-21-07(G)	Exempt from the requirements of OAC rule 3745-21-07(G)(2) in accordance with OAC rule 3745-21-07(G)(9). The dehydrator is designed to use only glycol which is not a photochemically reactive material, as defined in OAC rule 3745-21-01(C)(5).
	OAC rule 3745-35-07	In order to maintain this facility as a minor facility, i.e., below the major source thresholds for emissions of hazardous air pollutants (HAPs), the permittee shall continuously operate and maintain a flare, which satisfies all of the requirements of Section A.2 below, a capture (collection) system, and any other equipment necessary, in accordance with the manufacturer's recommendations, instructions, and operating manual (s), to control and limit emissions of OCs from P002 and P003 to the emissions limitations established pursuant to OAC rule 3745-31-05(A)(3).

2. **Additional Terms and Conditions**

- (a) OAC Chapter 3745-18 does not establish an SO2 emissions limitation for this emissions unit because the emissions unit burns only natural gas.
 This emissions unit shall be equipped with a flare to control organic compound emissions. The flare shall be fired with natural gas and shall be operated with a 98% destruction efficiency.
 The flare shall be designed and operated in a manner that will ensure no visible emissions, as determined by 40 CFR 60.18(f), except for periods not to exceed a total of 5 minutes during any 2 consecutive hours.
 The flare shall be operated at all times when emissions may be vented to it, as determined by methods specified in 40 CFR 60.18(f).
 The flare shall be used only when the net heating value of the gas being combusted is 200 Btu/scf or greater. The net heating value of the gas being combusted shall be determined by the methods specified in 40 CFR 60.18(f).
 The flare shall be designed for and operated with an exit velocity that satisfies the requirements of 40 CFR 60.18.

B. **Operational Restrictions**

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

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

1. The flare shall be monitored for the presence of a pilot flame using a thermocouple or any other equivalent device to detect the presence of a flame.
2. The permittee shall record the following information each month:
 - a. all periods during which there was no pilot flame; and
 - b. the operating times for the flare, monitoring equipment, and the associated emissions unit.
3. For each day a fuel other than natural gas is burned in this emissions unit, the permittee shall maintain a record of the type and quantity of fuel burned.
4. The permittee shall perform bi-weekly checks, when the emissions unit is in operation and when the weather conditions allow, for any visible particulate emissions from the stacks serving this emissions unit including the flare. The presence or absence of any visible emissions shall be noted in an operations log. If visible emissions are observed, the permittee shall also note the following in the operations log:
 - a. the location and color of the emissions;
 - b. whether the emissions are representative of normal operations;
 - c. if the emissions are not representative of normal operations, the cause of the abnormal emissions;
 - d. the total duration of any visible emission incident; and
 - e. any corrective actions taken to eliminate the visible emissions.

If, during any bi-weekly check, the permittee observes visible emissions from the flare, the permittee shall monitor the visible emissions for a minimum period of 10 minutes in accordance with the methods and procedures specified in 40 CFR Part 60, Appendix A, Method 22 and record the results in an operations log.

D. **Reporting Requirements**

1. The permittee shall report the use of any material other than glycol in this emissions unit within 30 days after the occurrence.
2. The permittee shall submit semiannual deviation (excursion) reports that identify all periods during which the pilot flame or flare was not functioning properly, and the emissions unit was not immediately shut down. The reports shall include the date, time, and duration of each such period, and shall be submitted by January 31 and July 31 of each year and shall cover the previous six calendar months.
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 submit semiannual written reports that (a) identify all days during which any visible particulate emissions were observed from the stacks serving this emissions unit, (b) include the results of all Method 22, visible emission readings performed for the flare, and (c) describe any corrective actions taken to eliminate the visible particulate emissions. These reports shall be submitted by January 31 and July 31 of each year and shall cover the previous 6-month period.
5. The deviation reports shall be submitted in accordance with the requirements specified in Part I - General Term and Condition 3.

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, as noted:
Emission Limitations: 2.0 lbs/hr & 8.8 tpy of OCs

Applicable Compliance Method: OC emissions shall be determined by employing the Gas Research Institute's simulation program GLYCalc version 3 or equivalent, wet gas analyses of the gases from the Wellington and Lorain storage fields, AP-42 emission factors for products of combustion, and an assumed destruction efficiency of 98% for the flare.

Emission tests may be required, in accordance with test procedures approved by the Director, to demonstrate compliance with the hourly emission limitation.
Emission Limitation: The flare shall be operated with a 98% control efficiency.

Applicable Compliance Method: If the flare complies with the control requirements specified in Sections A.2.c through A.2.f above, compliance with the 98% control efficiency requirement will be assumed.
Emission Limitation: The flare shall be designed and operated in a manner that will ensure no visible emissions, except for periods not to exceed a total of 5 minutes during any 2 consecutive hours.

Applicable Compliance Method: Compliance shall be determined through visible emission observations performed in accordance with 40 CFR Part 60, Appendix A, Method 22 and the procedures specified in 40 CFR Part 60.18(f).
Emission Limitation: 20% opacity as a 6-minute average, except as provided by rule (applies to the reboiler)

Applicable Compliance Method: Compliance shall be determined by visible particulate emission evaluations performed using the procedures specified in USEPA Method 9.
Emission Limitation: 0.020 lb PE/mmBtu actual heat input

Applicable Compliance Method:

The permittee may use the AP-42, 7/98, Table 1.4-2 emission factor of 0.001860 pound of particulates (filterable) per million Btu of actual heat input to demonstrate compliance.

If required, compliance shall be determined in accordance with the requirements in 40 CFR Part 60, Appendix A, Method 5 and the methods and procedures specified in OAC rule 3745-17-03(B)(10).

F. Miscellaneous Requirements

1. Modeling to demonstrate compliance with the Ohio EPA's "Air Toxic Policy" was not necessary because the emissions unit's maximum annual emissions for each toxic compound will be less than 1.0 ton. OAC Chapter 3745-31 requires permittees to apply for and obtain a new or modified permit to install 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 pollutant that has a listed TLV to increase to above 1.0 ton per year may require the permittee to apply for and obtain a new permit to install.
2. Except for F.1 of these special terms and conditions, all of the terms and conditions of this permit are federally enforceable, pursuant to OAC rule 3745-35-07.