

Facility ID: 0238000050 Issuance type: Title V Preliminary Proposed Permit

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

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Part II - Specific Facility Terms and Conditions

a State and Federally Enforceable Section

1. None

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b State Only Enforceable Section

1. The following insignificant emissions units located at this facility are exempt from permit requirements because they are not subject to any applicable requirements or because they meet the "de minimis" criteria established in OAC rule 3745-15-05:

Z003: various fugitive VOC emissions points;
Z004: heating system boiler #2; and
Z005: 1000-gallon reboiler water tank with flare.

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- [Go to Part III for Emissions Unit B004](#)
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Part III - Terms and Conditions for Emissions Units

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Facility ID: 0238000050 Emissions Unit ID: B003 Issuance type: Title V Preliminary Proposed Permit

A. State and Federally Enforceable Section

The following emissions unit terms and conditions are federally enforceable with the exception of those listed below which are enforceable under state law only.

1. None.

I. 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>
White Superior 8G-825, 4-cycle rich burn, natural gas-fired reciprocating pipeline compressor engine, having a maximum capacity of 9.1 MMBtu/hr (780 HP). (Compressor #07701 - B003)	OAC rule 3745-17-11(B)(5)(b)	Particulate emissions shall not exceed 0.35 lb/MMBtu actual heat input. See A.I.2.a below.
	OAC rule 3745-17-11(B)(5)(b)	Particulate emissions shall not exceed 0.062 lb/MMBtu actual heat input. See A.I.2.b below.
	OAC rule 3745-17-07(A)	Visible particulate emissions from the exhaust stack serving this emissions unit shall not exceed 20% opacity, as a 6-minute average, except for a period of not more than 6 consecutive minutes in any 60-minute period. Visible particulate emissions shall not exceed 60% opacity, as a 6-minute average, at any time.
	OAC rule 3745-18-06(G) OAC rule 3745-31-05(A)(3) (PTI 06-335 - effective 9/26/77)	None, see A.I.2.c below. The requirement established pursuant to this rule is equivalent to the requirements of OAC rule 3745-17-07(A) and OAC rule 3745-17-11(B).

2. Additional Terms and Conditions

- a. The requirement to comply with this particulate emission limitation shall terminate on the date the U.S. EPA approves the 0.062 lb/MMBtu actual heat input emission limitation as a revision to the Ohio SIP for particulate matter.
- b. This particulate emission limitation shall be effective and federally enforceable on the date the U.S. EPA approves this particulate emission limitation as a revision to the Ohio SIP for particulate matter.
- c. Pursuant to OAC rule 3745-18-06(B), this emissions unit is exempt from the sulfur dioxide emission limitation specified in OAC rule 3745-18-06(G) because the emissions unit's rated heat input capacity is equal to or less than 10 MMBtu/hr.

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II. Operational Restrictions

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

(Authority for term: OAC rule 3745-77-07(A)(1))

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III. Monitoring and/or Record Keeping Requirements

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

(Authority for term: OAC rule 3745-77-07(C)(1))

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IV. Reporting Requirements

1. 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.

(Authority for term: OAC rule 3745-77-07(C)(1))

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V. Testing Requirements

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

- a. Emission Limitations:
Particulate emissions shall not exceed 0.35 lb/MMBtu of actual heat input.
Particulate emissions shall not exceed 0.062 lb/MMBtu of actual heat input.

Applicable Compliance Method:

Compliance shall be based upon an emission factor of 0.00950 lb/MMBtu. This emission factor is specified in USEPA reference document AP-42, Fifth Edition, Compilation of Air Pollution Emission Factors, Section 3.2, Table 3.2-3 (7/00).

If required, the permittee shall demonstrate compliance with these emission limitations in accordance with the methods and procedures specified in OAC rule 3745-17-03(B)(10).

(Authority for term: OAC rules 3745-17-03(B)(10) and 3745-77-07(C)(1))

- b. Emission Limitations:
Visible particulate emissions from the exhaust stack serving this emissions unit shall not exceed 20% opacity, as a 6-minute average, except for a period of not more than 6 consecutive minutes in any 60-minute period. Visible particulate emissions shall not exceed 60% opacity, as a 6-minute average, at any time.

Applicable Compliance Method:

Compliance shall be determined through visible emission observations performed in accordance with 40 CFR Part 60, Appendix A, Method 9 and the procedures specified in OAC rule 3745-17-03(B)(1).

No visible emission observations are specifically required to demonstrate compliance with these emission limitations but, if appropriate, may be required pursuant to OAC rule 3745-15-04(A).

(Authority for term: OAC rules 3745-17-03(B)(1) and 3745-77-07(C)(1))

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VI. Miscellaneous Requirements

1. None

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Facility ID: 0238000050 Emissions Unit ID: B003 Issuance type: Title V Preliminary Proposed Permit

B. State Enforceable Section

The following emissions unit terms and conditions are federally enforceable with the exception of those listed below which are enforceable under state law only.

1. None.

I. 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>
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2. **Additional Terms and Conditions**

1. None

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II. **Operational Restrictions**

1. None

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

1. None

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IV. **Reporting Requirements**

1. None

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V. **Testing Requirements**

1. None

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VI. **Miscellaneous Requirements**

1. None

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Part III - Terms and Conditions for Emissions Units

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Facility ID: 0238000050 Emissions Unit ID: B004 Issuance type: Title V Preliminary Proposed Permit

A. State and Federally Enforceable Section

The following emissions unit terms and conditions are federally enforceable with the exception of those listed below which are enforceable under state law only.

1. None.

I. **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>
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White Superior 8G-825, 4-cycle rich burn, natural gas-fired reciprocating pipeline compressor engine, having a maximum capacity of 9.1 MMBtu/hr (780 HP).	OAC rule 3745-17-11(B)(5)(b)	Particulate emissions shall not exceed 0.35 lb/MMBtu actual heat input. See A.I.2.a below.
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(Compressor #07702 - B004)

OAC rule 3745-17-11(B)(5)(b)	Particulate emissions shall not exceed 0.062 lb/MMBtu actual heat input. See A.1.2.b below.
OAC rule 3745-17-07(A)	Visible particulate emissions from the exhaust stack serving this emissions unit shall not exceed 20% opacity, as a 6-minute average, except for a period of not more than 6 consecutive minutes in any 60-minute period. Visible particulate emissions shall not exceed 60% opacity, as a 6-minute average, at any time.
OAC rule 3745-18-06(G)	See A.1.2.c below.
OAC rule 3745-31-05(A)(3) (PTI 06-335 - effective 9/26/77)	The requirement established pursuant to this rule is equivalent to the requirements of OAC rule 3745-17-07(A) and OAC rule 3745-17-11(B).

2. **Additional Terms and Conditions**

- a. The requirement to comply with this particulate emission limitation shall terminate on the date the U.S. EPA approves the 0.062 lb/MMBtu actual heat input emission limitation as a revision to the Ohio SIP for particulate matter.
- b. This particulate emission limitation shall be effective and federally enforceable on the date the U.S. EPA approves this particulate emission limitation as a revision to the Ohio SIP for particulate matter.
- c. Pursuant to OAC rule 3745-18-06(B), this emissions unit is exempt from the sulfur dioxide emission limitation specified in OAC rule 3745-18-06(G) because the emissions unit's rated heat input capacity is equal to or less than 10 MMBtu/hr.

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II. **Operational Restrictions**

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

(Authority for term: OAC rule 3745-77-07(A)(1))

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

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

(Authority for term: OAC rule 3745-77-07(C)(1))

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IV. **Reporting Requirements**

- 1. 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.

(Authority for term: OAC rule 3745-77-07(C)(1))

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V. **Testing Requirements**

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

- a. Emission Limitations:
 - Particulate emissions shall not exceed 0.35 lb/MMBtu of actual heat input.
 - Particulate emissions shall not exceed 0.062 lb/MMBtu of actual heat input.

Applicable Compliance Method:
Compliance shall be based upon an emission factor of 0.00950 lb/MMBtu. This emission factor is specified in USEPA reference document AP-42, Fifth Edition, Compilation of Air Pollution Emission Factors, Section 3.2, Table 3.2-3 (7/00).

If required, the permittee shall demonstrate compliance with these emission limitations in accordance with the methods and procedures specified in OAC rule 3745-17-03(B)(10).

(Authority for term: OAC rules 3745-17-03(B)(10) and 3745-77-07(C)(1))

- b. Emission Limitations:
Visible particulate emissions from the exhaust stack serving this emissions unit shall not exceed 20% opacity, as a 6-minute average, except for a period of not more than 6 consecutive minutes in any 60-minute period. Visible particulate emissions shall not exceed 60% opacity, as a 6-minute average, at any time.

Applicable Compliance Method:
Compliance shall be determined through visible emission observations performed in accordance with 40 CFR Part 60, Appendix A, Method 9 and the procedures specified in OAC rule 3745-17-03(B)(1).

No visible emission observations are specifically required to demonstrate compliance with these emission limitations but, if appropriate, may be required pursuant to OAC rule 3745-15-04(A).

(Authority for term: OAC rules 3745-17-03(B)(1) and 3745-77-07(C)(1))

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VI. **Miscellaneous Requirements**

- 1. None

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Facility ID: 0238000050 Emissions Unit ID: B004 Issuance type: Title V Preliminary Proposed Permit

B. State Enforceable Section

The following emissions unit terms and conditions are federally enforceable with the exception of those listed below which are enforceable under state law only.

- 1. None.

I. **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>
2. Additional Terms and Conditions			
1.	None		

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II. **Operational Restrictions**

- 1. None

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

- 1. None

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IV. **Reporting Requirements**

- 1. None

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V. **Testing Requirements**

- 1. None

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VI. **Miscellaneous Requirements**

- 1. None

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Facility ID: 0238000050 Emissions Unit ID: B005 Issuance type: Title V Preliminary Proposed Permit

A. State and Federally Enforceable Section

The following emissions unit terms and conditions are federally enforceable with the exception of those listed below which are enforceable under state law only.

- 1. None.

I. **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>
White Superior 12-GTLA, 4-cycle lean burn, natural gas-fired reciprocating pipeline compressor engine, having a maximum capacity of 15.9 MMBtu/hr (1650 HP). (Compressor #07703 - B005)	OAC rule 3745-17-11(B)(5)(b)	Particulate emissions shall not exceed 0.35 lb/MMBtu actual heat input. See A.I.2.a below.
	OAC rule 3745-17-11(B)(5)(b)	Particulate emissions shall not exceed 0.062 lb/MMBtu actual heat input. See A.I.2.b below.
	OAC rule 3745-17-07(A)	Visible particulate emissions from the exhaust stack serving this emissions unit shall not exceed 20% opacity, as a 6-minute average, except for a period of not more than 6 consecutive minutes in any 60-minute period. Visible particulate emissions shall not exceed 60% opacity, as a 6-minute average, at any time.
	OAC rule 3745-18-06(G)	Sulfur dioxide emissions shall not exceed 0.5 lb/MMBtu actual heat input.
	OAC rule 3745-31-05(A)(3) (PTI 06-769 - effective 1/27/83)	The requirement established pursuant to this rule is equivalent to the requirements of OAC rule 3745-17-07(A) and OAC rule 3745-17-11(B).

2. **Additional Terms and Conditions**

- a. The requirement to comply with this particulate emission limitation shall terminate on the date the U.S. EPA approves the 0.062 lb/MMBtu actual heat input emission limitation as a revision to the Ohio SIP for particulate matter.
- b. This particulate emission limitation shall be effective and federally enforceable on the date the U.S. EPA approves this particulate emission limitation as a revision to the Ohio SIP for particulate matter.

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II. **Operational Restrictions**

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

(Authority for term: OAC rule 3745-77-07(A)(1))

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

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

(Authority for term: OAC rule 3745-77-07(C)(1))

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IV. Reporting Requirements

1. 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.

(Authority for term: OAC rule 3745-77-07(C)(1))

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V. Testing Requirements

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

- a. Emission Limitations:

Particulate emissions shall not exceed 0.35 lb/MMBtu of actual heat input.
Particulate emissions shall not exceed 0.062 lb/MMBtu of actual heat input.

Applicable Compliance Method:

Compliance shall be based upon an emission factor of 0.0000771 lb/MMBtu. This emission factor is specified in USEPA reference document AP-42, Fifth Edition, Compilation of Air Pollution Emission Factors, Section 3.2, Table 3.2-2 (7/00).

If required, the permittee shall demonstrate compliance with these emission limitations in accordance with the methods and procedures specified in OAC rule 3745-17-03(B)(10).

(Authority for term: OAC rules 3745-17-03(B)(10) and 3745-77-07(C)(1))

- b. Emission Limitations:

Visible particulate emissions from the exhaust stack serving this emissions unit shall not exceed 20% opacity, as a 6-minute average, except for a period of not more than 6 consecutive minutes in any 60-minute period. Visible particulate emissions shall not exceed 60% opacity, as a 6-minute average, at any time.

Applicable Compliance Method:

Compliance shall be determined through visible emission observations performed in accordance with 40 CFR Part 60, Appendix A, Method 9 and the procedures specified in OAC rule 3745-17-03(B)(1).

No visible emission observations are specifically required to demonstrate compliance with these emission limitations but, if appropriate, may be required pursuant to OAC rule 3745-15-04(A).

(Authority for term: OAC rules 3745-17-03(B)(1) and 3745-77-07(C)(1))

- c. Emission Limitation:

Sulfur dioxide emissions shall not exceed 0.5 lb/MMBtu actual heat input.

Applicable Compliance Method:

Compliance with this emission limitation will be assumed due to the negligible percent sulfur, by weight, in the fuel.

(Authority for term: OAC rules 3745-77-07(C)(1))

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VI. Miscellaneous Requirements

1. None

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Facility ID: 0238000050 Emissions Unit ID: B005 Issuance type: Title V Preliminary Proposed Permit

B. State Enforceable Section

The following emissions unit terms and conditions are federally enforceable with the exception of those listed below which are enforceable under state law only.

- 1. None.

I. 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>
2. Additional Terms and Conditions		
1. None		

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II. Operational Restrictions

- 1. None

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III. Monitoring and/or Record Keeping Requirements

- 1. None

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IV. Reporting Requirements

- 1. None

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V. Testing Requirements

- 1. None

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VI. Miscellaneous Requirements

- 1. None

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Facility ID: 0238000050 Emissions Unit ID: B006 Issuance type: Title V Preliminary Proposed Permit

A. State and Federally Enforceable Section

The following emissions unit terms and conditions are federally enforceable with the exception of those listed below which are enforceable under state law only.

- 1. None.

I. 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>
ONAN-LSG875, 4-cycle, rich burn, natural gas-fired reciprocating engine, having a maximum capacity of 0.91 MMBtu/hr (78 HP). (Compressor #077G1 - B006)	OAC rule 3745-17-11(B)(5)(a)	The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).
	OAC rule 3745-17-07(A)	Visible particulate emissions from the exhaust stack serving this emissions unit shall not exceed 20% opacity, as a 6-minute average, except for a period of not more than 6 consecutive minutes in any 60-minute period. Visible particulate emissions shall not exceed 60% opacity, as a 6-minute average, at any time. See A.I.2.a below.
	OAC rule 3745-18-06(G)	
	OAC rule 3745-31-05(A)(3) (PTI 02-11482 - effective 9/3/97)	Particulate emissions shall not exceed 0.25 lb/MMBtu and 1.1 tons per year. Sulfur dioxide emissions shall not exceed 0.5 lb/MMBtu and 2.19 tons per year. NOx emissions shall not exceed 1.72 lbs/MMBtu and 7.52 tons per year.
		The requirements of this rule also include compliance with the requirements of OAC rule 3745-17-07(A).

2. **Additional Terms and Conditions**

- a. Pursuant to OAC rule 3745-18-06(B), this emissions unit is exempt from the sulfur dioxide emission limitation specified in OAC rule 3745-18-06(G) because the emissions unit's rated heat input capacity is equal to or less than 10 MMBtu/hr.

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II. **Operational Restrictions**

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

(Authority for term: OAC rule 3745-77-07(A)(1))

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

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

(Authority for term: OAC rule 3745-77-07(C)(1))

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IV. **Reporting Requirements**

- 1. 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.

(Authority for term: OAC rule 3745-77-07(C)(1))

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V. **Testing Requirements**

- 1. Compliance with the emission limitations in Section A.I. of these terms and conditions shall be determined in accordance with the following methods:
 - a. Emission Limitations:
Particulate emissions shall not exceed 0.25 lb/MMBtu of actual heat input. Particulate emissions shall not exceed 1.1 tons per year.

Applicable Compliance Method:
Compliance shall be based upon an emission factor of 0.00950 lb/MMBtu. This emission factor is specified in USEPA reference document AP-42, Fifth Edition, Compilation of Air Pollution Emission Factors, Section 3.2, Table 3.2-3 (7/00).

If required, the permittee shall demonstrate compliance with the lb/MMBtu emission limitation through emission testing in accordance with 40 CFR PART 60, Appendix A, Methods 1 through 5 and the methods and procedures specified in OAC rule 3745-17-03(B)(10).

Compliance with the annual limit shall be based upon the emission factors referenced above multiplied by the maximum heat input rating of this unit, in MMBtu/hr, by 8670 hours per year and divided by 2000 lbs/ton.

(Authority for term: OAC rules 3745-17-03(B)(10) and 3745-77-07(C)(1))

b. Emission Limitations:

Visible particulate emissions from the exhaust stack serving this emissions unit shall not exceed 20% opacity, as a 6-minute average, except for a period of not more than 6 consecutive minutes in any 60-minute period. Visible particulate emissions shall not exceed 60% opacity, as a 6-minute average, at any time.

Applicable Compliance Method:

Compliance shall be determined through visible emission observations performed in accordance with 40 CFR Part 60, Appendix A, Method 9 and the procedures specified in OAC rule 3745-17-03(B)(1).

No visible emission observations are specifically required to demonstrate compliance with these emission limitations but, if appropriate, may be required pursuant to OAC rule 3745-15-04(A).

(Authority for term: OAC rules 3745-17-03(B)(1) and 3745-77-07(C)(1))

c. Emission Limitations:

Nitrogen oxides emissions shall not exceed 1.72 lbs/MMBtu and 7.52 tons/yr.

Applicable Compliance Method:

Compliance shall be based upon an emission factor of 0.01345 lb/bhp-hr multiplied by the operating horsepower of 78 bhp-hr and divided by the heat input capacity of 0.8268 MMBtu/hr. This emission factor has been supplied by the manufacturer from test data for this emissions unit.

If required, the permittee shall demonstrate compliance with the lb/MMBtu emission limitation through emission testing in accordance with 40 CFR PART 60, Appendix A, Methods 1 through 4 and 7.

Compliance with the annual limit shall be based upon the emission factor referenced above multiplied by the maximum horse power rating of this unit, in HP/hr, by 8670 hours per year and divided by 2000 lbs/ton.

(Authority for term: OAC rule 3745-77-07(C)(1))

d. Emission Limitations:

Sulfur dioxide emissions shall not exceed 0.5 lb/MMBtu and 2.19 tons/yr.

Applicable Compliance Method:

Compliance shall be based upon an emission factor of 0.000588 lb/MMBtu. This emission factor is specified in USEPA reference document AP-42, Fifth Edition, Compilation of Air Pollution Emission Factors, Section 3.2, Table 3.2-3 (7/00).

If required, the permittee shall demonstrate compliance with the lb/MMBtu emission limitation through emission testing in accordance with 40 CFR PART 60, Appendix A, Methods 1 through 4 and 6.

Compliance with the annual limit shall be based upon the emission factor referenced above multiplied by the maximum heat input rating of this emissions unit, in MMBtu/hr, by 8670 hours per year and divided by 2000 lbs/ton.

(Authority for term: OAC rule 3745-77-07(C)(1))

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VI. Miscellaneous Requirements

1. None

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Facility ID: 0238000050 Emissions Unit ID: B006 Issuance type: Title V Preliminary Proposed Permit

B. State Enforceable Section

The following emissions unit terms and conditions are federally enforceable with the exception of those listed below which are enforceable under state law only.

- 1. None.

I. 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>
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2. Additional Terms and Conditions

- 1. None

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II. Operational Restrictions

- 1. None

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III. Monitoring and/or Record Keeping Requirements

- 1. None

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IV. Reporting Requirements

- 1. None

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V. Testing Requirements

- 1. None

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VI. Miscellaneous Requirements

- 1. None

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Facility ID: 0238000050 Emissions Unit ID: P001 Issuance type: Title V Preliminary Proposed Permit

A. State and Federally Enforceable Section

The following emissions unit terms and conditions are federally enforceable with the exception of those listed below which are enforceable under state law only.

- 1. None.

I. 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>
NatCo triethylene glycol natural gas dehydration system which includes an absorber tower, regenerator still with a 0.48 MMBtu/hr natural gas-fired boiler, and a flare control system. (TEG DEHY #1 - P001)	OAC rule 3745-31-05(A)(3) (PTI No. 02-11482 - effective 9/3/97)	See A.I.2.b and A.II.1 through A.II.3 below.
	OAC rule 3745-21-07(G)	See A.I.2.a below.
	OAC rule 3745-17-07(A)	Visible particulate emissions from the boiler exhaust stack serving this emissions unit shall not exceed 20% opacity, as a 6-minute average, except for a period of not more than 6 consecutive minutes in any 60-minute period. Visible particulate emissions shall not exceed 60% opacity, as a 6-minute average, at any time.
	OAC rule 3745-17-10(B)	Particulate emissions from the boiler exhaust stack shall not exceed .020 lb/mmBtu of actual heat input.

2. **Additional Terms and Conditions**

- The emissions unit is designed to use only glycol which is not a photochemically reactive material, as defined in OAC rule 3745-21-01(C)(5).
- Total organic compound emissions shall not exceed 1.55 lbs/hr;
Toluene emissions shall not exceed 0.23 lb/hr;
Xylene emissions shall not exceed 0.11 lb/hr;
Benzene emissions shall not exceed 0.16 lb/hr; and
Total HAP emissions shall not exceed 0.55 lb/hr.

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II. **Operational Restrictions**

- The 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 95% control efficiency.
(Authority for term: OAC rules 3745-31-05(A)(3) and 3745-77-07(A)(1))
- The flare shall be designed and operated in a manner that will ensure no visible emissions, as determined by 40 CFR Part 60.18(f), except for periods not to exceed a total of 5 minutes during any 2 consecutive hours.
(Authority for term: OAC rules 3745-31-05(A)(3) and 3745-77-07(A)(1))
- 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 Part 60.18(f).
(Authority for term: OAC rules 3745-31-05(A)(3) and 3745-77-07(A)(1))
- The flare shall be operated at all times when emissions may be vented to it, as determined by methods specified in 40 CFR Part 60.18(f).
(Authority for term: OAC rules 3745-31-05(A)(3) and 3745-77-07(A)(1))
- The flare shall be designed for and operated with an exit velocity that satisfies the requirements of 40 CFR Part 60.18.
(Authority for term: OAC rules 3745-31-05(A)(3) and 3745-77-07(A)(1))
- The permittee shall burn only natural gas in the reboiler of this emissions unit.
(Authority for term: OAC rule 3745-77(A)(1))

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

- 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.
(Authority for term: OAC rules 3745-31-05(A)(3) and 3745-77-07(C)(1))
- The permittee shall record the following information each month:
 - all periods during which there was no pilot flame; and
 - the operating times for the flare, monitoring equipment, and the associated emissions unit.
(Authority for term: OAC rules 3745-31-05(A)(3) and 3745-77-07(C)(1))
- The permittee shall perform daily checks, when the emissions unit is in operation and when the weather conditions allow, for any visible particulate emissions from the stack(s) serving this emissions unit. 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 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.

(Authority for term: OAC rule 3745-77-07(C)(1))

4. For each day during which the permittee burns a fuel other than natural gas in the reboiler, the permittee shall maintain a record of the type and quantity of fuel burned in this emissions unit.

(Authority for term : OAC rule 3745-77-07(C)(1))

5. For each day during which the permittee uses any material other than glycol, the permittee shall maintain a record of the type and quantity of material employed this emissions unit.

(Authority for term : OAC rule 3745-77-07(C)(1))

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IV. 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.

(Authority for term: OAC rules 3745-31-05(A)(3) and 3745-77-07(C)(1))

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.

(Authority for term: OAC rule 3745-77-07(C)(1))

3. The permittee shall submit semi-annual deviation (excursion) reports that identify all periods during which the pilot flame or flare was not functioning properly, and the emissions unit was not 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 6 calendar months.

(Authority for term: OAC rule 3745-77-07(C)(1))

4. The permittee shall submit semiannual written reports that (a) identify all days during which any visible particulate emissions were observed from the stack(s) serving this emissions unit and (b) describe any corrective actions taken to eliminate the visible particulate emissions. These reports shall be submitted to the Director (the Ohio EPA Northeast District Office) by January 31 and July 31 of each year and shall cover the previous 6-month period.

(Authority for term: OAC rule 3745-77-07(C)(1))

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V. Testing Requirements

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

- a. Emission Limitations:

Visible particulate emissions from the boiler exhaust stack serving this emissions unit shall not exceed 20% opacity, as a 6-minute average, except for a period of not more than 6 consecutive minutes in any 60-minute period. Visible particulate emissions shall not exceed 60% opacity, as a 6-minute average, at any time.

Applicable Compliance Method:

Compliance shall be determined through visible emission observations performed in accordance with 40 CFR Part 60, Appendix A, Method 9 and the procedures specified in OAC rule 3745-17-03(B)(1).

No visible emission observations are specifically required to demonstrate compliance with these emission limitations but, if appropriate, may be required pursuant to OAC rule 3745-15-04(A).

(Authority for term: OAC rules 3745-17-03(B)(1) and 3745-77-07(C)(1))

- b. Emission Limitation:

Particulate emissions from the boiler exhaust stack shall not exceed .020 lb/MMBtu actual heat input.

Applicable Compliance Method:

Compliance shall be determined by multiplying an emission factor of 1.9 lbs of particulates/mm standard

- cu. ft. by the emissions unit's maximum hourly natural gas firing capacity (.0012 MM standard cu. ft./hr) and dividing by the emissions unit's rated heat input capacity (1.2 MMBtu/hr). This emission factor is specified in USEPA reference document AP-42, Fifth Edition, Compilation of Air Pollution Emission Factors, Section 1.4, Table 1.4-2 (7/98).

If required, the permittee shall demonstrate compliance with this emission limitation through emission tests performed in accordance with 40 CFR Part 60, Appendix A, Methods 1 through 5 and the procedures specified in OAC rule 3745-17-03(B)(9).

(Authority for term: OAC rules 3745-17-03(B)(9) and 3745-77-07(C)(1))

- c. Emission Limitation:

The flare shall be operated with a 95% control efficiency.

Applicable Compliance Method:

If the flare complies with the control requirements specified in Sections A.II.1, A.II.2, and A.II.3 above, compliance with the 95% control efficiency requirement will be assumed.

(Authority for term: OAC rule 3745-77-07(C)(1))

- d. Emission Limitation:

No visible emissions from the flare except for periods not to exceed a total of 5 minutes during any 2 consecutive hours.

Applicable Compliance Method:

40 CFR Part 60, Appendix A, Method 22.

No visible emission observations are specifically required to demonstrate compliance with this emission limitation but, if appropriate, may be required pursuant to OAC rule 3745-15-04(A).

(Authority for term: 40 CFR 60.18(f) and OAC rule 3745-77-07(C)(1))

- e. Emission Limitations:

total organic compound emissions shall not exceed 1.55 lbs/hr;

toluene emissions shall not exceed 0.23 lb/hr;

xylylene emissions shall not exceed 0.11 lb/hr;

benzene emissions shall not exceed 0.16 lb/hr; and

total HAP emissions shall not exceed 0.55 lb/hr.

Applicable Compliance Method:

Compliance with these emission limitations 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 storage field associated with this natural gas compressor station, AP-42 emission factors for products of combustion, and an assumed control efficiency of 95% for the flare.

Emission tests may be required, in accordance with test procedures approved by the Director, to demonstrate compliance with the hourly emission limitations.

(Authority for term: OAC rule 3745-77-07(C)(1))

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VI. **Miscellaneous Requirements**

1. None

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B. State Enforceable Section

The following emissions unit terms and conditions are federally enforceable with the exception of those listed below which are enforceable under state law only.

1. None.

I. **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>
2.	Additional Terms and Conditions		
1.	None		

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II. **Operational Restrictions**

1. None

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

1. None

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IV. **Reporting Requirements**

1. None

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V. **Testing Requirements**

1. None

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VI. **Miscellaneous Requirements**

1. None