

Facility ID: 1409040897 Issuance type: Title V Final 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. This facility is subject to the applicable requirements specified in OAC Chapter 3745-25. In accordance with Ohio EPA Engineering Guide #64, the emission control action programs, as specified in OAC rule 3745-25-03, shall be developed and submitted within 60 days after receiving notification from the Ohio EPA.

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b State Only Enforceable Section

1. There are no insignificant emissions units at this facility.

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Part III - Terms and Conditions for Emissions Units

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Facility ID: 1409040897 Emissions Unit ID: P001 Issuance type: Title V Final 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>
422.57 MMBtu/hr natural gas-fired turbine with water injection	OAC rule 3745-31-05(D) (PTI 14-4702)	3 lbs particulate emissions (PE)/hr* 13.14 TPY PE per rolling, 12-month period 0.12 lb sulfur dioxide (SO ₂)/hr* 0.53 TPY SO ₂ per rolling, 12-month period 263.8 lbs carbon monoxide (CO)/hr 98 TPY CO per rolling, 12-month period 75.7 lbs volatile organic compounds (VOC)/hr 30 TPY VOC per rolling, 12-month period 71.2 lbs nitrogen oxides (NO _x)/hr 65 TPY NO _x per rolling, 12-month period *The hourly emission limitations established in PTI 14-4702 for PE and SO ₂ were based on the emissions units' potentials to emit. Therefore, it is not necessary to develop any additional monitoring, record keeping, or reporting requirements to ensure compliance with these emission limitations. The requirements of this rule also includes compliance with the requirements of OAC rule 3745-17-07(A). See A.I.2.a, A.II.1, and A.II.2 below.
	40 CFR Part 60, Subpart GG	The emission limitations/control measures established in 40 CFR Part 60, Subpart GG for SO ₂ and NO _x are the same as or less stringent than those established in PTI 14-4702 under OAC rule 3745-31-05(D).
	OAC rule 3745-17-07(A)	Visible particulate emissions from any stack shall not exceed 20 percent opacity, as a 6-minute average, except as specified by rule.
	OAC rule 3745-17-11(B)(4)	The particulate emission limitation established in OAC rule 3745-17-11(B)(4) is less stringent than that established in PTI 14-4702 under OAC rule 3745-31-05(D).
	OAC rule 3745-18-06(F)	The SO ₂ emission limitation established in OAC rule 3745-18-06(F) is less stringent than that established in PTI 14-4702 under OAC rule 3745-31-05(D).
	OAC rules 3745-21-08(B) and 3745-23-06(B)	None, see A.I.2.b below.

2. Additional Terms and Conditions

- a. The sulfur content of the natural gas burned in this emissions unit shall not exceed 0.05%, by weight. (This sulfur content limitation is at the threshold limit for acid rain monitoring requirements and is more stringent than the sulfur content limitation required by 40 CFR 60, Subpart GG.)

- b. The permittee has satisfied the "best available control techniques and operating practices" and "latest available control techniques and operating practices" required pursuant to OAC rules 3745-21-08 and 3745-23-06, respectively by committing to comply with the best available technology requirements established in Permit to Install 14-4702.

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II. Operational Restrictions

1. The maximum annual operating hours for this emissions unit shall not exceed 2,250 hours based upon a rolling, 12-month summation of the operating hours.
2. The permittee shall operate a water injection system for control of NOx emissions. The water injection system shall be capable of meeting the emission limitations for NOx specified in A.I.1.
3. The permittee shall burn only natural gas in this emissions unit.

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III. Monitoring and/or Record Keeping Requirements

1. The permittee shall collect and record the following information on a monthly basis:
 - a. The total number of hours the emissions unit was in operation during the calendar month.
 - b. The rolling, 12-month summation of the hours of operation (the summation of the value recorded in line a. for the current month's operation added to the value in line a. for the previous 11-months of operation).
2. 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.
3. The permittee shall collect and record the sulfur content of the natural gas being fired in the turbine on a quarterly basis.

Analysis for the purpose of determining the sulfur content and heat of combustion of the fuel may be performed by the owner/operator, the fuel vendor, or any other qualified agency provided that the analytical methods employed by those agencies comply with 40 CFR 60 Subpart GG, Section 60.334.

If the fuel vendor changes, the permittee shall notify the Hamilton County Department of Environmental Services - Air Quality Division so that the custom schedule for natural gas can be re-examined. During the interim period, sulfur sampling and analysis shall be conducted daily.

Should any sulfur analysis indicate noncompliance with 40 CFR 60.333 or the sulfur limits stated in section A.I. of this permit, the permittee shall notify the Hamilton County Department of Environmental Services - Air Quality Division of the exceedance and the custom schedule shall be re-examined. During the re-examination period the permittee shall conduct daily sulfur monitoring and submit these analyses to the Hamilton County Department of Environmental Services - Air Quality Division.

4. The permittee shall operate and maintain existing equipment to continuously monitor and record CO emissions from this emissions unit in lbs CO/hr. Such continuous monitoring and recording equipment shall comply with the requirements specified in 40 CFR Part 60.13.

The permittee shall maintain records of all data obtained by the continuous CO monitoring system including, but not limited to, parts per million CO on an instantaneous (one-minute) basis, emissions of CO in lbs/hr, results of daily zero/span calibration checks, and magnitude of manual calibration adjustments.

The permittee shall maintain a written quality assurance/quality control plan for the continuous CO monitoring system designed to ensure continuous valid and representative readings of CO. The plan shall follow the requirements of 40 CFR Part 60, Appendix F. The quality assurance/quality control plan and a logbook dedicated to the continuous CO monitoring system must be kept on site and available for inspection during regular office hours.

A statement of certification of the existing continuous CO monitoring system shall be maintained on site and shall consist of a letter from the Ohio EPA detailing the results of an Agency review of the certification tests and a statement by the Agency that the system is considered certified in accordance with the requirements of 40 CFR Part 60, Appendix B, Performance Specification 4 and 6. Proof of certification shall be made available to the Hamilton County Department of Environmental Services - Air Quality Division upon request.

5. In lieu of complying with the monitoring and testing provisions of 40 CFR 60.334 and 60.345 to demonstrate compliance with the NOx emission limitations, the permittee shall operate and maintain systems to continuously monitor and record emissions of NOx from this emissions unit as specified below.

The permittee shall operate and maintain existing equipment to continuously monitor and record NOx from this emissions unit in lbs of NOx/hr. Such continuous monitoring and recording equipment shall comply with the requirements specified in 40 CFR Part 60.13 and/or 40 CFR Part 75.

The permittee shall maintain records of all data obtained by the continuous NOx monitoring system including, but not limited to, parts per million NOx on an instantaneous (one-minute) basis, emissions of NOx in lbs/hr, results of daily zero/span calibration checks, and magnitude of manual calibration adjustments.

The permittee shall maintain a written quality assurance/quality control plan for the continuous NOx monitoring system designed to ensure continuous valid and representative readings of NOx emissions in units of the applicable standard. The plan shall follow the requirements of 40 CFR Part 60, Appendix F and/or 40 CFR Part 75, Appendix B. The quality assurance/quality control plan and a logbook dedicated to

the continuous NOx monitoring system must be kept on site and available for inspection during regular office hours.

A statement of certification of the existing continuous NOx monitoring system shall be maintained on site and shall consist of a letter from the Ohio EPA detailing the results of an Agency review of the certification tests and a statement by the Agency that the system is considered certified in accordance with the requirements of 40 CFR Part 60, Appendix B, Performance Specification 6 and/or 40 CFR Part 75. Proof of certification shall be made available to the Hamilton County Department of Environmental Services - Air Quality Division upon request.

6. The permittee shall operate and maintain existing equipment to continuously monitor and record VOC emissions from this emissions unit in lbs VOC/hr. Such continuous monitoring and recording equipment shall comply with the requirements specified in 40 CFR Part 60.13.

The permittee shall maintain records of all data obtained by the continuous VOC monitoring system including, but not limited to, parts per million VOC on an instantaneous (one-minute) basis, emissions of VOC in lbs/hr, results of daily zero/span calibration checks, and magnitude of manual calibration adjustments.

The permittee shall maintain a written quality assurance/quality control plan for the continuous VOC monitoring system designed to ensure continuous valid and representative readings of VOC. The plan shall follow the requirements of 40 CFR Part 60, Appendix F. The quality assurance/quality control plan and a logbook dedicated to the continuous VOC monitoring system must be kept on site and available for inspection during regular office hours.

A statement of certification of the existing continuous VOC monitoring system shall be maintained on site and shall consist of a letter from the Ohio EPA detailing the results of an Agency review of the certification tests and a statement by the Agency that the system is considered certified in accordance with the requirements of 40 CFR Part 60, Appendix B, Performance Specification 6. Proof of certification shall be made available to the Hamilton County Department of Environmental Services - Air Quality Division upon request.

7. The permittee shall collect and record the following information on a monthly basis:
- The monthly CO emissions from this emissions unit, in tons (i.e., the summation of the hourly CO emission totals recorded in A.III.4 for all hours of operation during the calendar month divided by 2000 lbs/ton).
 - The rolling, 12-month summation for CO emissions, in tons (i.e., the summation of the value recorded in line a. for the current month's operation added to the value in line a. for the previous 11-months of operation).
8. The permittee shall collect and record the following information on a monthly basis:
- The monthly NOx emissions from this emissions unit, in tons (i.e., the summation of the hourly NOx emission totals recorded in A.III.5 for all hours of operation during the calendar month divided by 2000 lbs/ton).
 - The rolling, 12-month summation for NOx emissions, in tons (i.e., the summation of the value recorded in line a. for the current month's operation added to the value in line a. for the previous 11-months of operation).
9. The permittee shall collect and record the following information on a monthly basis:
- The monthly VOC emissions from this emissions unit, in tons (i.e., the summation of the hourly VOC emission totals recorded in A.III.6 for all hours of operation during the calendar month divided by 2000 lbs/ton).
 - The rolling, 12-month summation for VOC emissions, in tons (i.e., the summation of the value recorded in line a. for the current month's operation added to the value in line a. for the previous 11-months of operation).

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IV. Reporting Requirements

- The permittee shall submit quarterly reports that identify each period during which an exemption for ice-fog provided in 40 CFR 60.332(g) is in effect. The report shall include the ambient conditions existing during the period, the date and time the air pollution control system was deactivated, and the date and time when the air pollution control system was reactivated. These reports shall be postmarked by April 30, July 30, October 30 and January 30 and shall cover the previous calendar quarters.
- The permittee shall submit quarterly deviation (excursion) reports that identify all exceedances of the following limitations:
 - The rolling, 12-month hours of operation.
 - The rolling, 12-month emissions of CO.
 - The rolling, 12-month emissions of VOC.
 - The rolling, 12-month emissions of NOx.
 - The sulfur content of the natural gas burned in this emissions unit.
- 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. Pursuant to OAC rule 3745-15-04 and ORC sections 3704.03(l) and 3704.031, the permittee shall submit reports within 30 days following the end of each calendar quarter to the Hamilton County Department of Environmental Services - Air Quality Division documenting the date, commencement and completion times, duration, magnitude, reason (if known), and corrective actions taken (if any) of all instances of CO values in excess of any applicable limitation(s) specified in the terms and conditions of this permit, in units of the standard. These reports shall also contain the total CO emissions for the calendar quarter (in tons).

The permittee shall submit reports within 30 days following the end of each calendar quarter to the Hamilton County Department of Environmental Services - Air Quality Division documenting any continuous CO monitoring system downtime while the emissions unit was on line (date, time, duration and reason) along with any corrective action(s) taken. The permittee shall provide the emissions unit operating time during the reporting period and the date, time, reason and corrective action(s) taken for each time period of emissions unit and control equipment malfunctions. The total operating time of the emissions unit and the total operating time of the analyzer while the emissions unit was on line shall also be included in the quarterly report.

If there are no excess emissions during the calendar quarter, the permittee shall submit a statement to that effect along with the date, time, reason, and corrective action(s) taken for each time period of monitoring system malfunctions. The total operating time of the emissions unit and the total operating time of the analyzer while the emissions unit was on line shall also be included in the quarterly report. These quarterly excess emission reports shall be submitted by January 30, April 30, July 30, and October 30 of each year and shall address the data obtained during the previous calendar quarter.

Pursuant to OAC rule 3745-15-04 and ORC sections 3704.03(l) and 3704.031, the permittee shall submit a summary of the excess emission report. The summary shall be submitted to the Hamilton County Department of Environmental Services - Air Quality Division within 30 days following the end of each calendar quarter in a manner prescribed by the Director.

5. Pursuant to OAC rule 3745-15-04 and 40 CFR Parts 60.7 and 60.13(h), the permittee shall submit reports within 30 days following the end of each calendar quarter to the Hamilton County Department of Environmental Services - Air Quality Division documenting the date, commencement and completion times, duration, magnitude, reason (if known), and corrective actions taken (if any), of all instances of NO_x values in excess of the applicable limits specified in the terms and conditions of this permit. These reports shall also contain the total NO_x emissions for the calendar quarter (in tons).

The permittee shall submit reports within 30 days following the end of each calendar quarter to the Hamilton County Department of Environmental Services - Air Quality Division documenting any continuous NO_x monitoring system downtime while the emissions unit was on line (date, time, duration and reason) along with any corrective action(s) taken. The permittee shall provide the emissions unit operating time during the reporting period and the date, time, reason and corrective action(s) taken for each time period of emissions unit and control equipment malfunctions. The total operating time of the emissions unit and the total operating time of the analyzer while the emissions unit was on line shall also be included in the quarterly report.

If there are no excess emissions during the calendar quarter, the permittee shall submit a statement to that effect along with the date, time, reason, and corrective action(s) taken for each time period of monitoring system malfunctions. The total operating time of the emissions unit and the total operating time of the analyzer while the emissions unit was on line shall also be included in the quarterly report. These quarterly excess emission reports shall be submitted by January 30, April 30, July 30, and October 30 of each year and shall address the data obtained during the previous calendar quarter.

Pursuant to OAC rule 3745-15-04, the permittee shall submit a summary of the excess emission report to the Hamilton County Department of Environmental Services - Air Quality Division within 30 days following the end of each calendar quarter in a manner prescribed by the Director.

6. Pursuant to OAC rule 3745-15-04 and ORC sections 3704.03(l) and 3704.031, the permittee shall submit reports within 30 days following the end of each calendar quarter to the Hamilton County Department of Environmental Services - Air Quality Division documenting the date, commencement and completion times, duration, magnitude, reason (if known), and corrective actions taken (if any) of all instances of VOC values in excess of any applicable limitation(s) specified in the terms and conditions of this permit, in units of the standard. These reports shall also contain the total VOC emissions for the calendar quarter (in tons).

The permittee shall submit reports within 30 days following the end of each calendar quarter to the Hamilton County Department of Environmental Services - Air Quality Division documenting any continuous VOC monitoring system downtime while the emissions unit was on line (date, time, duration and reason) along with any corrective action(s) taken. The permittee shall provide the emissions unit operating time during the reporting period and the date, time, reason and corrective action(s) taken for each time period of emissions unit and control equipment malfunctions. The total operating time of the emissions unit and the total operating time of the analyzer while the emissions unit was on line shall also be included in the quarterly report.

If there are no excess emissions during the calendar quarter, the permittee shall submit a statement to that effect along with the date, time, reason, and corrective action(s) taken for each time period of monitoring system malfunctions. The total operating time of the emissions unit and the total operating time of the analyzer while the emissions unit was on line shall also be included in the quarterly report. These quarterly excess emission reports shall be submitted by January 30, April 30, July 30, and October 30 of each year and shall address the data obtained during the previous calendar quarter.

Pursuant to OAC rule 3745-15-04 and ORC sections 3704.03(l) and 3704.031, the permittee shall submit a summary of the excess emission report. The summary shall be submitted to the Hamilton County Department of Environmental Services - Air Quality Division within 30 days following the end of each calendar quarter in a manner prescribed by the Director.

7. The quarterly deviation reports shall be submitted in accordance with the reporting requirements specified in Part I - General Terms and Condition A.1.c.ii.

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V. Testing Requirements

1. Compliance with the sulfur content limitation of the natural gas burned shall be demonstrated using standard methods as required in 40 CFR part 60.335 and the information collected and recorded in A.III.3 of this permit.
2. Compliance with the pounds per hour and tons per year NO_x, CO, and VOC emission limitations specified in A.I.1 may be demonstrated by the NO_x, CO, and VOC continuous emission monitoring system data collected and recorded in A.III.4-A.III.9.

If required, the permittee shall demonstrate compliance with the pounds per hour NO_x emission limitation through emission tests performed in accordance with Methods 1-4 and 7 of 40 CFR 60, Appendix A and the equation specified in 40 CFR 60.334(c)(1).

If required, the permittee shall demonstrate compliance with the pounds per hour CO emission limitation through emission tests performed in accordance with Methods 1-4 and 10 of 40 CFR 60, Appendix A.

If required, the permittee shall demonstrate compliance with the pounds per hour VOC emission limitation through emission tests performed in accordance with Methods 1-4 and 25 of 40 CFR 60, Appendix A.
3. Compliance with the pounds per hour particulate emission limitation may be demonstrated based on the manufacturer's guaranteed emission rate data supplied in the application for PTI 14-4702.

If required, the permittee shall demonstrate compliance with the pounds per hour particulate emission limitation through emission tests performed in accordance with Methods 1-5 of 40 CFR 60, Appendix A and the equation specified in 40 CFR 60.334(c)(1).

The annual emission limitation was established by multiplying the short-term emission limitation by 8760 hours per year and dividing by 2000 pounds per ton.
4. Compliance with the hours of operation limitation shall be demonstrated based on the record keeping in A.III.1.
5. Compliance with the pounds per hour SO₂ emission limitation may be demonstrated based on the manufacturer's guaranteed emission rate data supplied in the application for PTI 14-4702 provided compliance is maintained with the sulfur content limitation in A.I.2.a for the natural gas burned in this emissions unit.

If required, the permittee shall demonstrate compliance with the pounds per hour SO₂ emission limitation through emission tests performed in accordance with Methods 1-4 and 6 of 40 CFR 60, Appendix A and the equation specified in 40 CFR 60.334(c)(1).

The annual emission limitation was established by multiplying the short-term emission limitation by 8760 hours per year and dividing by 2000 pounds per ton.
6. If required, compliance with the visible emission limitation shall be demonstrated 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).

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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**

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IV. **Reporting Requirements**

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V. **Testing Requirements**

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VI. **Miscellaneous Requirements**

1. None