



State of Ohio Environmental Protection Agency

**RE: FINAL PERMIT TO INSTALL
LUCAS COUNTY**

CERTIFIED MAIL

Street Address:

122 S. Front Street

Lazarus Gov. Center TELE: (614) 644-3020 FAX: (614) 644-2329

Mailing Address:

Lazarus Gov. Center
P.O. Box 1049

Application No: 04-01420

Fac ID: 0448011734

DATE: 7/19/2005

Seagate Convention Centre
J. T. Thielman
401 Jefferson Avenue
Toledo, OH 43604

Enclosed please find an Ohio EPA Permit to Install which will allow you to install the described source(s) in a manner indicated in the permit. Because this permit contains several conditions and restrictions, I urge you to read it carefully.

The Ohio EPA is urging companies to investigate pollution prevention and energy conservation. Not only will this reduce pollution and energy consumption, but it can also save you money. If you would like to learn ways you can save money while protecting the environment, please contact our Office of Pollution Prevention at (614) 644-3469.

You are hereby notified that this action by the Director is final and may be appealed to the Ohio Environmental Review Appeals Commission pursuant to Chapter 3745.04 of the Ohio Revised Code. The appeal must be in writing and set forth the action complained of and the grounds upon which the appeal is based. It must be filed within thirty (30) days after the notice of the Directors action. A copy of the appeal must be served on the Director of the Ohio Environmental Protection Agency within three (3) days of filing with the Commission. An appeal may be filed with the Environmental Review Appeals Commission at the following address:

Environmental Review Appeals Commission
309 South Fourth Street, Room 222
Columbus, Ohio 43215

Sincerely,

Michael W. Ahern, Manager
Permit Issuance and Data Management Section
Division of Air Pollution Control

CC: USEPA

TDES



**Permit To Install
Terms and Conditions**

**Issue Date: 7/19/2005
Effective Date: 7/19/2005**

FINAL PERMIT TO INSTALL 04-01420

Application Number: 04-01420
Facility ID: 0448011734
Permit Fee: **\$100**
Name of Facility: Seagate Convention Centre
Person to Contact: J. T. Thielman
Address: 401 Jefferson Avenue
Toledo, OH 43604

Location of proposed air contaminant source(s) [emissions unit(s)]:
**401 Jefferson Avenue
Toledo, Ohio**

Description of proposed emissions unit(s):
(4) Capstone Energy Microturbines.

The above named entity is hereby granted a Permit to Install for the above described emissions unit(s) pursuant to Chapter 3745-31 of the Ohio Administrative Code. Issuance of this permit does not constitute expressed or implied approval or agreement that, if constructed or modified in accordance with the plans included in the application, the above described emissions unit(s) of environmental pollutants will operate in compliance with applicable State and Federal laws and regulations, and does not constitute expressed or implied assurance that if constructed or modified in accordance with those plans and specifications, the above described emissions unit(s) of pollutants will be granted the necessary permits to operate (air) or NPDES permits as applicable.

This permit is granted subject to the conditions attached hereto.

Ohio Environmental Protection Agency

Director

Part I - GENERAL TERMS AND CONDITIONS

A. Permit to Install General Terms and Conditions

1. Compliance Requirements

The emissions unit(s) identified in this Permit to Install shall remain in full compliance with all applicable State laws and regulations and the terms and conditions of this permit.

2. Reporting Requirements

The permittee shall submit required reports in the following manner:

- a. Reports of any required monitoring and/or recordkeeping information shall be submitted to the appropriate Ohio EPA District Office or local air agency.
- b. Except as otherwise may be provided in the terms and conditions for a specific emissions unit, quarterly written reports of (a) any deviations (excursions) from emission limitations, operational restrictions, and control device operating parameter limitations that have been detected by the testing, monitoring, and recordkeeping requirements specified in this permit, (b) the probable cause of such deviations, and (c) any corrective actions or preventive measures which have been or will be taken, shall be submitted to the appropriate Ohio EPA District Office or local air agency. If no deviations occurred during a calendar quarter, the permittee shall submit a quarterly report, which states that no deviations occurred during that quarter. The reports shall be submitted quarterly, i.e., by January 31, April 30, July 31, and October 31 of each year and shall cover the previous calendar quarters. (These quarterly reports shall exclude deviations resulting from malfunctions reported in accordance with OAC rule 3745-15-06.)

3. Records Retention Requirements

Each record of any monitoring data, testing data, and support information required pursuant to this permit shall be retained for a period of five years from the date the record was created. Support information shall include, but not be limited to, all calibration and maintenance records and all original strip-chart recordings for continuous monitoring instrumentation, and copies of all reports required by this permit. Such records may be maintained in computerized form.

4. Inspections and Information Requests

The Director of the Ohio EPA, or an authorized representative of the Director, may, subject to the safety requirements of the permittee and without undue delay, enter upon

Seagate Convention Centre
PTI Application: 04-01420
Issued: 7/19/2005

Facility ID: 044801173

the premises of this source at any reasonable time for purposes of making inspections, conducting tests, examining records or reports pertaining to any emission of air contaminants, and determining compliance with any applicable State air pollution laws and regulations and the terms and conditions of this permit. The permittee shall furnish to the Director of the Ohio EPA, or an authorized representative of the Director, upon receipt of a written request and within a reasonable time, any information that may be requested to determine whether cause exists for modifying, reopening or revoking this permit or to determine compliance with this permit. Upon verbal or written request, the permittee shall also furnish to the Director of the Ohio EPA, or an authorized representative of the Director, copies of records required to be kept by this permit.

5. Scheduled Maintenance/Malfunction Reporting

Any scheduled maintenance of air pollution control equipment shall be performed in accordance with paragraph (A) of OAC rule 3745-15-06. The malfunction of any emissions units or any associated air pollution control system(s) shall be reported to the appropriate Ohio EPA District Office or local air agency in accordance with paragraph (B) of OAC rule 3745-15-06. Except as provided in that rule, any scheduled maintenance or malfunction necessitating the shutdown or bypassing of any air pollution control system(s) shall be accompanied by the shutdown of the emissions unit(s) that is (are) served by such control system(s).

6. Permit Transfers

Any transferee of this permit shall assume the responsibilities of the prior permit holder. The appropriate Ohio EPA District Office or local air agency must be notified in writing of any transfer of this permit.

7. Air Pollution Nuisance

The air contaminants emitted by the emissions units covered by this permit shall not cause a public nuisance, in violation of OAC rule 3745-15-07.

8. Termination of Permit to Install

This Permit to Install shall terminate within eighteen months of the effective date of the Permit to Install if the owner or operator has not undertaken a continuing program of installation or modification or has not entered into a binding contractual obligation to undertake and complete within a reasonable time a continuing program of installation or modification. This deadline may be extended by up to 12 months if application is made to the Director within a reasonable time before the termination date and the party shows good cause for any such extension.

9. Construction of New Sources(s)

Seagate Convention Centre
PTI Application: 04-01420
Issued: 7/19/2005

Facility ID: 044801173

The proposed emissions unit(s) shall be constructed in strict accordance with the plans and application submitted for this permit to the Director of the Ohio Environmental Protection Agency. There may be no deviation from the approved plans without the express, written approval of the Agency. Any deviations from the approved plans or the above conditions may lead to such sanctions and penalties as provided under Ohio law. Approval of these plans does not constitute an assurance that the proposed facilities will operate in compliance with all Ohio laws and regulations. Additional facilities shall be installed upon orders of the Ohio Environmental Protection Agency if the proposed sources cannot meet the requirements of this permit or cannot meet applicable standards.

If the construction of the proposed emissions unit(s) has already begun or has been completed prior to the date the Director of the Environmental Protection Agency approves the permit application and plans, the approval does not constitute expressed or implied assurance that the proposed facility has been constructed in accordance with the approved plans. The action of beginning and/or completing construction prior to obtaining the Director's approval constitutes a violation of OAC rule 3745-31-02. Furthermore, issuance of the Permit to Install does not constitute an assurance that the proposed source will operate in compliance with all Ohio laws and regulations. Approval of the plans in any case is not to be construed as an approval of the facility as constructed and/or completed. Moreover, issuance of the Permit to Install is not to be construed as a waiver of any rights that the Ohio Environmental Protection Agency (or other persons) may have against the applicant for starting construction prior to the effective date of the permit. Additional facilities shall be installed upon orders of the Ohio Environmental Protection Agency if the proposed facilities cannot meet the requirements of this permit or cannot meet applicable standards.

10. Public Disclosure

The facility is hereby notified that this permit, and all agency records concerning the operation of this permitted source, are subject to public disclosure in accordance with OAC rule 3745-49-03.

11. Applicability

This Permit To Install is applicable only to the emissions unit(s) identified in the Permit To Install. Separate Permit To Install for the installation or modification of any other emissions unit(s) are required for any emissions unit for which a Permit To Install is required.

12. Best Available Technology

As specified in OAC Rule 3745-31-05, all new sources must employ Best Available Technology (BAT). Compliance with the terms and conditions of this permit will fulfill this requirement.

Seagate Convention Centre
 PTI Application: 04-01420
 Issued: 7/19/2005

Facility ID: 044801173

13. Source Operation and Operating Permit Requirements After Completion of Construction

This facility is permitted to operate each source described by this Permit to Install for a period of up to one year from the date the source commenced operation. This permission to operate is granted only if the facility complies with all requirements contained in this permit and all applicable air pollution laws, regulations, and policies. Pursuant to OAC Chapter 3745-35, the permittee shall submit a complete operating permit application within ninety (90) days after commencing operation of the emissions unit(s) covered by this permit.

14. Construction Compliance Certification

The applicant shall provide Ohio EPA with a written certification (see enclosed form) that the facility has been constructed in accordance with the Permit to Install application and the terms and conditions of the Permit to Install. The certification shall be provided to Ohio EPA upon completion of construction but prior to startup of the source.

15. Fees

The permittee shall pay fees to the Director of the Ohio EPA in accordance with ORC section 3745.11 and OAC Chapter 3745-78. The permittee shall pay all applicable Permit to Install fees within 30 days after the issuance of this Permit to Install.

B. Permit to Install Summary of Allowable Emissions

The following information summarizes the total allowable emissions, by pollutant, based on the individual allowable emissions of each air contaminant source identified in this permit.

**SUMMARY (for informational purposes only)
 TOTAL PERMIT TO INSTALL ALLOWABLE EMISSIONS**

<u>Pollutant</u>	<u>Tons Per Year</u>
CO	13.2
NOx	0.18
PE	0.036
SO ₂	0.04
VOC	5.6

Seagate Convention Centre
PTI Application: 04-01420
Issued: 7/19/2005

Facility ID: 044801173



PART II - SPECIAL TERMS AND CONDITIONS FOR SPECIFIC EMISSIONS UNIT(S)

A. Applicable Emissions Limitations and/or Control Requirements

- The specific operations(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 specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	
P001 - No. 1 turbine / 60 kW (0.804 mmBtu/hr) Capstone Energy C60-ICHP MicroTurbine with integral heat recovery	OAC rule 3745-31-05(A)(3)	OAC rule 3745-18-06(A)
		OAC rule 3745-21-07(B)
		OAC rule 3745-21-08(B)
		OAC rule 3745-23-06(B)
		40 CFR Part 60, Subpart GG
		40 CFR Part 63, Subpart YYYY
	OAC rule 3745-17-07(A)(1)	
	OAC rule 3745-17-11(B)	

Applicable Emissions
Limitations/Control Measures

Particulate emissions (PE) emissions shall not exceed 0.002 lb/hr and 0.009 ton/yr.

Sulfur dioxide (SO₂) emissions shall not exceed 0.003 lb/hr and 0.01 ton/yr.

Nitrogen oxide (NO_x) emission shall not exceed 0.0104 lb/hr and 0.046 ton/yr.

Carbon monoxide (CO) emissions shall not exceed 0.75 lb/hr and 3.3 tons/yr.

Volatile organic compound (VOC) emissions shall not exceed 0.31 lb/hr and 1.4 tons/yr.

Visible emissions shall not exceed 5% opacity as a 6-minute average.

See Section A.2.a.

See Section A.2.g.

See Section A.2.c.

See Section A.2.d.

See Section A.2.b.

See Section A.2.h

See Section A.2.b.

Exempt - see Section A.2.e.

Exempt- see Section A.2.f.

2. Additional Terms and Conditions

- 2.a** The hourly and annual emission limitations are based upon the emissions unit's potential to emit. Therefore, there is no need for any monitoring, record keeping, and reporting to ensure compliance with the emission limitations.
- 2.b** The permittee shall satisfy the "latest available control techniques and operating practices" required pursuant to OAC rules 3745-21-07(B) and 3745-23-06(B) by complying with the best available technology requirements established pursuant to OAC rule 3745-31-05(A)(3) in this permit to install.

On February 14, 2005, OAC rule 3745-23-06 was rescinded; therefore, paragraph (B) is no longer part of the State regulations. However, that rule revision has not yet been submitted to the U.S. EPA as a revision to Ohio's State Implementation Plan (SIP). Therefore, until the U.S. EPA approves the revision to OAC rule 3745-23-06, the requirement to satisfy the "latest available control techniques and operating practices" still exists as part of the federally-approved SIP for Ohio.

- 2.c** The uncontrolled mass rate of particulate emissions from this emissions unit is less than 10 pounds per hour. Therefore, pursuant to OAC rule 3745-17-11(A)(2)(a)(ii), Figure II of OAC rule 3745-17-11 does not apply. In addition, Table I of OAC rule 3745-17-11 does not apply because the process weight rate, as defined in OAC rule 3745-17-01(B)(14), is equal to zero.
- 2.d** This emissions unit is exempt from the requirements of OAC chapter 3745-18 as long as on any calendar day the fuel burned in this emissions unit has a heat content greater than 950 Btu per standard cubic foot and a sulfur content less than 0.6 pounds per million standard cubic feet and is the only fuel burned.

On September 1, 2003, OAC rule 3745-18-06 was revised to delete the following phase: "having a heat content greater than 950 Btu per standard cubic foot and a sulfur content less than 0.6 pounds per million standard cubic feet". Therefore, this phase is no longer part of the State regulations. However, that rule revision has not yet been submitted to the U.S. EPA as a revision to Ohio's State Implementation Plan (SIP). Therefore, until the SIP revision occurs and the U.S. EPA approves the revisions to OAC rule 3745-18-06, the requirements still exist as part of the federally-approved SIP for Ohio.

- 2.e** The permittee is exempt from the requirements of this rule, since this emissions unit has a heat input at peak load less than 10 mmBtu/hr.
- 2.f** The permittee is exempt from the requirements of this rule, since this emissions unit is not located at a major source of HAP emissions.
- 2.g** The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).
- 2.h** The permittee has satisfied the "best available control techniques and operating practices" required pursuant to OAC rule 3745-21-08(B) by complying with all applicable rules.

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

B. Operational Restrictions

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

C. Monitoring and/or Recordkeeping 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.

D. 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.

E. Testing Requirements

- 1. Compliance with the emissions limitation(s) in section A.I.1 of these terms and conditions shall be determined in accordance with the following methods:
 - a. Emission Limitation:

12

Seagate Convention Centre
PTI Application: 01-01120
Issue:

Facility ID: 044801173

Emissions Unit ID: P001

5% opacity as a 6-minute average

Applicable Compliance Method:

If required, compliance shall be demonstrated based upon the procedures specified in Method 9 of 40 CFR Part 60, Appendix A.

b. Emission Limitation:

0.75 lb/hr CO emissions

Applicable Compliance Method

Multiply the CO emission factor supplied by the permittee of $2.49E-02$ lb/kWh_e times 30 kWh_e. The maximum hourly CO emissions occur when the emissions unit is operating at 50% load (30 kWh_e). If required, the permittee shall demonstrate compliance using Methods 1 through 4 and 10 of 40 CFR part 60, Appendix A. Alternative U.S. EPA-approved test methods can be used with prior approval from Ohio EPA.

c. Emission Limitation:

3.3 tons/yr CO emissions

Applicable Compliance Method:

Annual allowable emissions are based on the hourly allowable emission rate multiplied by 8760 hours per year and divided by 2000 pounds/ton. Therefore, compliance with the hourly CO emission limitation constitutes compliance with the annual CO emission limitation.

d. Emission Limitation:

0.002 lb/hr PE

Applicable Compliance Method:

Multiply the AP-42 particulate matter emission factor of 0.0019 lb/mmBtu heat input (AP-42 Table 3.1-2a dated 4/2000) by the maximum heat input of 0.804 mmBtu/hr. If required, compliance shall be demonstrated based upon the procedures specified in Methods 1-5 of 40 CFR Part 60, Appendix A. Alternative U.S. EPA-approved test methods can be used with prior approval from Ohio

EPA.

e. Emission Limitation:

0.009 ton/yr PE

Applicable Compliance Method:

Annual allowable emissions are based on the hourly allowable emission rate multiplied by 8760 hours per year and divided by 2000 pounds/ton. Therefore, compliance with the hourly particulate emission limitation constitutes compliance with the annual particulate emission limitation.

f. Emission Limitation:

0.0104 lb/hr NO_x emissions

Applicable Compliance Method:

Multiply the NO_x emission factor supplied by the permittee of 6.94E-04 lb/kWh_e times 15 kWh_e. The maximum hourly NO_x emissions occur when the emissions unit is operating at 25% load (15 kWh_e). If required, the permittee shall demonstrate compliance using Methods 1 through 4 and 7 of 40 CFR part 60, Appendix A. Alternative U.S. EPA-approved test methods can be used with prior approval from Ohio EPA.

g. Emission Limitation:

0.046 ton/yr NO_x emissions

Applicable Compliance Method:

Annual allowable emissions are based on the hourly allowable emission rate multiplied by 8760 hours per year and divided by 2000 pounds/ton. Therefore, compliance with the hourly NO_x emission limitation constitutes compliance with the annual NO_x emission limitation.

h. Emission Limitation:

0.003 lb/hr SO₂ emissions

Applicable Compliance Method

Multiply the AP-42 sulfur dioxide emission factor of 0.0019 lb/mmBtu heat input (AP-42 Table 3.1-2a dated 4/2000) by the maximum heat input of 0.804 mmBtu/hr. If required, the permittee shall demonstrate compliance using

Emissions Unit ID: **P001**

Methods 1 through 6C of 40 CFR Part 60, Appendix A. Alternative U.S. EPA-approved test methods can be used with prior approval from Ohio EPA.

i. Emission Limitation:

0.01 ton/yr SO₂ emissions

Applicable Compliance Method

Annual allowable emissions are based on the hourly allowable emission rate multiplied by 8760 hours per year and divided by 2000 pounds/ton. Therefore, compliance with the hourly SO₂ emission limitation constitutes compliance with the annual SO₂ emission limitation.

j. Emission Limitation:

0.31 lbs/hr VOC emissions

Applicable Compliance Method:

Multiply the VOC emission factor supplied by the permittee of 6.94E-04 lb/kWh_e times 30 kWh_e. The maximum hourly VOC emissions occur when the emissions unit is operating at 50% load (30 kWh_e). If required, the permittee shall demonstrate compliance using Methods 1 through 4 and 25 or Methods 1-4 and 25A, as appropriate, of 40 CFR Part 60, Appendix A. Alternative U.S. EPA-approved test methods can be used with prior approval from Ohio EPA.

k. Emission Limitation:

1.4 tons/yr VOC emissions

Applicable Compliance Method:

Annual allowable emissions are based on the hourly allowable emission rate multiplied by 8760 hours per year and divided by 2000 pounds/ton. Therefore, compliance with the hourly VOC emission limitation constitutes compliance with the annual VOC emission limitation.

F. Miscellaneous Requirements

None

PART II - SPECIAL TERMS AND CONDITIONS FOR SPECIFIC EMISSIONS UNIT(S)

A. Applicable Emissions Limitations and/or Control Requirements

1. The specific operations(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 specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>
P002 - No.2 turbine / 60 kW (0.804 mmBtu/hr) Capstone Energy C60-ICHP MicroTurbine with integral heat recovery	OAC rule 3745-18-06(A)
	OAC rule 3745-21-07(B)
	OAC rule 3745-21-08(B)
	OAC rule 3745-23-06(B)
	40 CFR Part 60, Subpart GG
	40 CFR Part 63, Subpart YYYY
	OAC rule 3745-17-07(A)(1)
OAC rule 3745-17-11(B)	

Applicable Emissions
Limitations/Control Measures

Particulate emissions (PE) emissions shall not exceed 0.002 lb/hr and 0.009 ton/yr.

Sulfur dioxide (SO₂) emissions shall not exceed 0.003 lb/hr and 0.01 ton/yr.

Nitrogen oxide (NO_x) emission shall not exceed 0.0104 lb/hr and 0.046 ton/yr.

Carbon monoxide (CO) emissions shall not exceed 0.75 lb/hr and 3.3 tons/yr.

Volatile organic compound (VOC) emissions shall not exceed 0.31 lb/hr and 1.4 tons/yr.

Visible emissions shall not exceed 5% opacity as a 6-minute average.

See Section A.2.a.

See Section A.2.g.

See Section A.2.c.

See Section A.2.d.

See Section A.2.b.

See Section A.2.h

See Section A.2.b.

Exempt - see Section A.2.e.

Exempt- see Section A.2.f.

2. Additional Terms and Conditions

- 2.a** The hourly and annual emission limitations are based upon the emissions unit's potential to emit. Therefore, there is no need for any monitoring, record keeping, and reporting to ensure compliance with the emission limitations.
- 2.b** The permittee shall satisfy the "latest available control techniques and operating practices" required pursuant to OAC rules 3745-21-07(B) and 3745-23-06(B) by complying with the best available technology requirements established pursuant to OAC rule 3745-31-05(A)(3) in this permit to install.

On February 14, 2005, OAC rule 3745-23-06 was rescinded; therefore, paragraph (B) is no longer part of the State regulations. However, that rule revision has not yet been submitted to the U.S. EPA as a revision to Ohio's State Implementation Plan (SIP). Therefore, until the U.S. EPA approves the revision to OAC rule 3745-23-06, the requirement to satisfy the "latest available control techniques and operating practices" still exists as part of the federally-approved SIP for Ohio.

- 2.c** The uncontrolled mass rate of particulate emissions from this emissions unit is less than 10 pounds per hour. Therefore, pursuant to OAC rule 3745-17-11(A)(2)(a)(ii), Figure II of OAC rule 3745-17-11 does not apply. In addition, Table I of OAC rule 3745-17-11 does not apply because the process weight rate, as defined in OAC rule 3745-17-01(B)(14), is equal to zero.
- 2.d** This emissions unit is exempt from the requirements of OAC chapter 3745-18 as long as on any calendar day the fuel burned in this emissions unit has a heat content greater than 950 Btu per standard cubic foot and a sulfur content less than 0.6 pounds per million standard cubic feet and is the only fuel burned.

On September 1, 2003, OAC rule 3745-18-06 was revised to delete the following phase: "having a heat content greater than 950 Btu per standard cubic foot and a sulfur content less than 0.6 pounds per million standard cubic feet". Therefore, this phase is no longer part of the State regulations. However, that rule revision has not yet been submitted to the U.S. EPA as a revision to Ohio's State Implementation Plan (SIP). Therefore, until the SIP revision occurs and the U.S. EPA approves the revisions to OAC rule 3745-18-06, the requirements still exist as part of the federally-approved SIP for Ohio.

- 2.e** The permittee is exempt from the requirements of this rule, since this emissions unit has a heat input at peak load less than 10 mmBtu/hr.
- 2.f** The permittee is exempt from the requirements of this rule, since this emissions unit is not located at a major source of HAP emissions.
- 2.g** The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).
- 2.h** The permittee has satisfied the "best available control techniques and operating practices" required pursuant to OAC rule 3745-21-08(B) by complying with all applicable rules.

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

B. Operational Restrictions

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

C. Monitoring and/or Recordkeeping 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.

D. 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.

E. Testing Requirements

- 1. Compliance with the emissions limitation(s) in section A.I.1 of these terms and

21

Seaga

PTI A

Issued: 7/19/2005

Emissions Unit ID: **P002**

conditions shall be determined in accordance with the following methods:

a. Emission Limitation:

5% opacity as a 6-minute average

Applicable Compliance Method:

If required, compliance shall be demonstrated based upon the procedures specified in Method 9 of 40 CFR Part 60, Appendix A.

b. Emission Limitation:

0.75 lb/hr CO emissions

Applicable Compliance Method

Multiply the CO emission factor supplied by the permittee of $2.49E-02$ lb/kWh_e times 30 kWh_e. The maximum hourly CO emissions occur when the emissions unit is operating at 50% load (30 kWh_e). If required, the permittee shall demonstrate compliance using Methods 1 through 4 and 10 of 40 CFR part 60, Appendix A. Alternative U.S. EPA-approved test methods can be used with prior approval from Ohio EPA.

c. Emission Limitation:

3.3 tons/yr CO emissions

Applicable Compliance Method:

Annual allowable emissions are based on the hourly allowable emission rate multiplied by 8760 hours per year and divided by 2000 pounds/ton. Therefore, compliance with the hourly CO emission limitation constitutes compliance with the annual CO emission limitation.

d. Emission Limitation:

0.002 lb/hr PE

Applicable Compliance Method:

Multiply the AP-42 particulate matter emission factor of 0.0019 lb/mmBtu heat

Seagate Convention Centre
PTI Application: 04-01120
Issue:

Facility ID: 044801173

Emissions Unit ID: P002

input (AP-42 Table 3.1-2a dated 4/2000) by the maximum heat input of 0.804 mmBtu/hr. If required, compliance shall be demonstrated based upon the procedures specified in Methods 1-5 of 40 CFR Part 60, Appendix A. Alternative U.S. EPA-approved test methods can be used with prior approval from Ohio EPA.

e. Emission Limitation:

0.009 ton/yr PE

Applicable Compliance Method:

Annual allowable emissions are based on the hourly allowable emission rate multiplied by 8760 hours per year and divided by 2000 pounds/ton. Therefore, compliance with the hourly particulate emission limitation constitutes compliance with the annual particulate emission limitation.

f. Emission Limitation:

0.0104 lb/hr NO_x emissions

Applicable Compliance Method:

Multiply the NO_x emission factor supplied by the permittee of 6.94E-04 lb/kWh_e times 15 kWh_e. The maximum hourly NO_x emissions occur when the emissions unit is operating at 25% load (15 kWh_e). If required, the permittee shall demonstrate compliance using Methods 1 through 4 and 7 of 40 CFR part 60, Appendix A. Alternative U.S. EPA-approved test methods can be used with prior approval from Ohio EPA.

g. Emission Limitation:

0.046 ton/yr NO_x emissions

Applicable Compliance Method:

Annual allowable emissions are based on the hourly allowable emission rate multiplied by 8760 hours per year and divided by 2000 pounds/ton. Therefore, compliance with the hourly NO_x emission limitation constitutes compliance with the annual NO_x emission limitation.

h. Emission Limitation:

0.003 lb/hr SO₂ emissions

Applicable Compliance Method

Multiply the AP-42 sulfur dioxide emission factor of 0.0019 lb/mmBtu heat input (AP-42 Table 3.1-2a dated 4/2000) by the maximum heat input of 0.804 mmBtu/hr. If required, the permittee shall demonstrate compliance using Methods 1 through 6C of 40 CFR Part 60, Appendix A. Alternative U.S. EPA-approved test methods can be used with prior approval from Ohio EPA.

i. Emission Limitation:

0.01 ton/yr SO₂ emissions

Applicable Compliance Method

Annual allowable emissions are based on the hourly allowable emission rate multiplied by 8760 hours per year and divided by 2000 pounds/ton. Therefore, compliance with the hourly SO₂ emission limitation constitutes compliance with the annual SO₂ emission limitation.

j. Emission Limitation:

0.31 lbs/hr VOC emissions

Applicable Compliance Method:

Multiply the VOC emission factor supplied by the permittee of 6.94E-04 lb/kWh_e times 30 kWh_e. The maximum hourly VOC emissions occur when the emissions unit is operating at 50% load (30 kWh_e). If required, the permittee shall demonstrate compliance using Methods 1 through 4 and 25 or Methods 1-4 and 25A, as appropriate, of 40 CFR Part 60, Appendix A. Alternative U.S. EPA-approved test methods can be used with prior approval from Ohio EPA.

k. Emission Limitation:

1.4 tons/yr VOC emissions

Applicable Compliance Method:

Annual allowable emissions are based on the hourly allowable emission rate multiplied by 8760 hours per year and divided by 2000 pounds/ton. Therefore, compliance with the hourly VOC emission limitation constitutes compliance with

the annual VOC emission limitation.

F. Miscellaneous Requirements

None

PART II - SPECIAL TERMS AND CONDITIONS FOR SPECIFIC EMISSIONS UNIT(S)

A. Applicable Emissions Limitations and/or Control Requirements

1. The specific operations(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 specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>
P003 - No. 3 turbine / 60 kW (0.804 mmBtu/hr) Capstone Energy C60-ICHP MicroTurbine with integral heat recovery	OAC rule 3745-18-06(A)
	OAC rule 3745-21-07(B)
	OAC rule 3745-21-08(B)
	OAC rule 3745-23-06(B)
	40 CFR Part 60, Subpart GG
	40 CFR Part 63, Subpart YYYY
	OAC rule 3745-17-07(A)(1)
	OAC rule 3745-17-11(B)

Applicable Emissions
Limitations/Control Measures

Particulate emissions (PE) emissions shall not exceed 0.002 lb/hr and 0.009 ton/yr.

Sulfur dioxide (SO₂) emissions shall not exceed 0.003 lb/hr and 0.01 ton/yr.

Nitrogen oxide (NO_x) emission shall not exceed 0.0104 lb/hr and 0.046 ton/yr.

Carbon monoxide (CO) emissions shall not exceed 0.75 lb/hr and 3.3 tons/yr.

Volatile organic compound (VOC) emissions shall not exceed 0.31 lb/hr and 1.4 tons/yr.

Visible emissions shall not exceed 5% opacity as a 6-minute average.

See Section A.2.a.

See Section A.2.g.

See Section A.2.c.

See Section A.2.d.

See Section A.2.b.

See Section A.2.h

See Section A.2.b.

Exempt - see Section A.2.e.

Exempt- see Section A.2.f.

2. Additional Terms and Conditions

2.a The hourly and annual emission limitations are based upon the emissions unit's potential to emit. Therefore, there is no need for any monitoring, record keeping, and reporting to ensure compliance with the emission limitations.

2.b The permittee shall satisfy the "latest available control techniques and operating practices" required pursuant to OAC rules 3745-21-07(B) and 3745-23-06(B) by complying with the best available technology requirements established pursuant to OAC rule 3745-31-05(A)(3) in this permit to install.

On February 14, 2005, OAC rule 3745-23-06 was rescinded; therefore, paragraph (B) is no longer part of the State regulations. However, that rule revision has not yet been submitted to the U.S. EPA as a revision to Ohio's State Implementation Plan (SIP). Therefore, until the U.S. EPA approves the revision to OAC rule 3745-23-06, the requirement to satisfy the "latest available control techniques and operating practices" still exists as part of the federally-approved SIP for Ohio.

2.c The uncontrolled mass rate of particulate emissions from this emissions unit is less than 10 pounds per hour. Therefore, pursuant to OAC rule 3745-17-11(A)(2)(a)(ii), Figure II of OAC rule 3745-17-11 does not apply. In addition, Table I of OAC rule 3745-17-11 does not apply because the process weight rate, as defined in OAC rule 3745-17-01(B)(14), is equal to zero.

2.d This emissions unit is exempt from the requirements of OAC chapter 3745-18 as long as on any calendar day the fuel burned in this emissions unit has a heat content greater than 950 Btu per standard cubic foot and a sulfur content less than 0.6 pounds per million standard cubic feet and is the only fuel burned.

On September 1, 2003, OAC rule 3745-18-06 was revised to delete the following phase: "having a heat content greater than 950 Btu per standard cubic foot and a sulfur content less than 0.6 pounds per million standard cubic feet". Therefore, this phase is no longer part of the State regulations. However, that rule revision has not yet been submitted to the U.S. EPA as a revision to Ohio's State Implementation Plan (SIP). Therefore, until the SIP revision occurs and the U.S. EPA approves the revisions to OAC rule 3745-18-06, the requirements still exist as part of the federally-approved SIP for Ohio.

- 2.e** The permittee is exempt from the requirements of this rule, since this emissions unit has a heat input at peak load less than 10 mmBtu/hr.
- 2.f** The permittee is exempt from the requirements of this rule, since this emissions unit is not located at a major source of HAP emissions.
- 2.g** The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).
- 2.h** The permittee has satisfied the "best available control techniques and operating practices" required pursuant to OAC rule 3745-21-08(B) by complying with all applicable rules.

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

B. Operational Restrictions

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

C. Monitoring and/or Recordkeeping 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.

D. 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.

E. Testing Requirements

Emissions Unit ID: P003

1. Compliance with the emissions limitation(s) in section A.I.1 of these terms and conditions shall be determined in accordance with the following methods:
 - a. Emission Limitation:

5% opacity as a 6-minute average

Applicable Compliance Method:

If required, compliance shall be demonstrated based upon the procedures specified in Method 9 of 40 CFR Part 60, Appendix A.
 - b. Emission Limitation:

0.75 lb/hr CO emissions

Applicable Compliance Method

Multiply the CO emission factor supplied by the permittee of 2.49E-02 lb/kWh_e times 30 kWh_e. The maximum hourly CO emissions occur when the emissions unit is operating at 50% load (30 kWh_e). If required, the permittee shall demonstrate compliance using Methods 1 through 4 and 10 of 40 CFR part 60, Appendix A. Alternative U.S. EPA-approved test methods can be used with prior approval from Ohio EPA.
 - c. Emission Limitation:

3.3 tons/yr CO emissions

Applicable Compliance Method:

Annual allowable emissions are based on the hourly allowable emission rate multiplied by 8760 hours per year and divided by 2000 pounds/ton. Therefore, compliance with the hourly CO emission limitation constitutes compliance with the annual CO emission limitation.
 - d. Emission Limitation:

0.002 lb/hr PE

Applicable Compliance Method:

Multiply the AP-42 particulate matter emission factor of 0.0019 lb/mmBtu heat input (AP-42 Table 3.1-2a dated 4/2000) by the maximum heat input of 0.804 mmBtu/hr. If required, compliance shall be demonstrated based upon the procedures specified in Methods 1-5 of 40 CFR Part 60, Appendix A. Alternative U.S. EPA-approved test methods can be used with prior approval from Ohio EPA.

e. Emission Limitation:

0.009 ton/yr PE

Applicable Compliance Method:

Annual allowable emissions are based on the hourly allowable emission rate multiplied by 8760 hours per year and divided by 2000 pounds/ton. Therefore, compliance with the hourly particulate emission limitation constitutes compliance with the annual particulate emission limitation.

f. Emission Limitation:

0.0104 lb/hr NO_x emissions

Applicable Compliance Method:

Multiply the NO_x emission factor supplied by the permittee of 6.94E-04 lb/kWh_e times 15 kWh_e. The maximum hourly NO_x emissions occur when the emissions unit is operating at 25% load (15 kWh_e). If required, the permittee shall demonstrate compliance using Methods 1 through 4 and 7 of 40 CFR part 60, Appendix A. Alternative U.S. EPA-approved test methods can be used with prior approval from Ohio EPA.

g. Emission Limitation:

0.046 ton/yr NO_x emissions

Applicable Compliance Method:

Annual allowable emissions are based on the hourly allowable emission rate multiplied by 8760 hours per year and divided by 2000 pounds/ton. Therefore,

compliance with the hourly NO_x emission limitation constitutes compliance with the annual NO_x emission limitation.

h. Emission Limitation:

0.003 lb/hr SO₂ emissions

Applicable Compliance Method

Multiply the AP-42 sulfur dioxide emission factor of 0.0019 lb/mmBtu heat input (AP-42 Table 3.1-2a dated 4/2000) by the maximum heat input of 0.804 mmBtu/hr. If required, the permittee shall demonstrate compliance using Methods 1 through 6C of 40 CFR Part 60, Appendix A. Alternative U.S. EPA-approved test methods can be used with prior approval from Ohio EPA.

i. Emission Limitation:

0.01 ton/yr SO₂ emissions

Applicable Compliance Method

Annual allowable emissions are based on the hourly allowable emission rate multiplied by 8760 hours per year and divided by 2000 pounds/ton. Therefore, compliance with the hourly SO₂ emission limitation constitutes compliance with the annual SO₂ emission limitation.

j. Emission Limitation:

0.31 lbs/hr VOC emissions

Applicable Compliance Method:

Multiply the VOC emission factor supplied by the permittee of 6.94E-04 lb/kWh_e times 30 kWh_e. The maximum hourly VOC emissions occur when the emissions unit is operating at 50% load (30 kWh_e). If required, the permittee shall demonstrate compliance using Methods 1 through 4 and 25 or Methods 1-4 and 25A, as appropriate, of 40 CFR Part 60, Appendix A. Alternative U.S. EPA-approved test methods can be used with prior approval from Ohio EPA.

k. Emission Limitation:

Seagate Convention Centre
PTI Application: 04-01120
Issue:

Facility ID: 044801173

Emissions Unit ID: P003

1.4 tons/yr VOC emissions

Applicable Compliance Method:

Annual allowable emissions are based on the hourly allowable emission rate multiplied by 8760 hours per year and divided by 2000 pounds/ton. Therefore, compliance with the hourly VOC emission limitation constitutes compliance with the annual VOC emission limitation.

F. Miscellaneous Requirements

None

PART II - SPECIAL TERMS AND CONDITIONS FOR SPECIFIC EMISSIONS UNIT(S)

A. Applicable Emissions Limitations and/or Control Requirements

- The specific operations(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 specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>
P004 - No. 4 turbine / 60 kW (0.804 mmBtu/hr) Capstone Energy C60-ICHP MicroTurbine with integral heat recovery	OAC rule 3745-18-06(A) OAC rule 3745-21-07(B) OAC rule 3745-21-08(B) OAC rule 3745-23-06(B) 40 CFR Part 60, Subpart GG 40 CFR Part 63, Subpart YYYY
	OAC rule 3745-17-07(A)(1) OAC rule 3745-17-11(B)

Applicable Emissions
Limitations/Control Measures

Particulate emissions (PE) emissions shall not exceed 0.002 lb/hr and 0.009 ton/yr.

Sulfur dioxide (SO₂) emissions shall not exceed 0.003 lb/hr and 0.01 ton/yr.

Nitrogen oxide (NO_x) emission shall not exceed 0.0104 lb/hr and 0.046 ton/yr.

Carbon monoxide (CO) emissions shall not exceed 0.75 lb/hr and 3.3 tons/yr.

Volatile organic compound (VOC) emissions shall not exceed 0.31 lb/hr and 1.4 tons/yr.

Visible emissions shall not exceed 5% opacity as a 6-minute average.

See Section A.2.a.

See Section A.2.g.

See Section A.2.c.

See Section A.2.d.

See Section A.2.b.

See Section A.2.h

See Section A.2.b.

Exempt - see Section A.2.e.

Exempt- see Section A.2.f.

2. Additional Terms and Conditions

2.a The hourly and annual emission limitations are based upon the emissions unit's potential to emit. Therefore, there is no need for any monitoring, record keeping, and reporting to ensure compliance with the emission limitations.

2.b The permittee shall satisfy the "latest available control techniques and operating practices" required pursuant to OAC rules 3745-21-07(B) and 3745-23-06(B) by complying with the best available technology requirements established pursuant to OAC rule 3745-31-05(A)(3) in this permit to install.

On February 14, 2005, OAC rule 3745-23-06 was rescinded; therefore, paragraph (B) is no longer part of the State regulations. However, that rule revision has not yet been submitted to the U.S. EPA as a revision to Ohio's State Implementation Plan (SIP). Therefore, until the U.S. EPA approves the revision to OAC rule 3745-23-06, the requirement to satisfy the "latest available control techniques and operating practices" still exists as part of the federally-approved SIP for Ohio.

2.c The uncontrolled mass rate of particulate emissions from this emissions unit is less than 10 pounds per hour. Therefore, pursuant to OAC rule 3745-17-11(A)(2)(a)(ii), Figure II of OAC rule 3745-17-11 does not apply. In addition, Table I of OAC rule 3745-17-11 does not apply because the process weight rate, as defined in OAC rule 3745-17-01(B)(14), is equal to zero.

2.d This emissions unit is exempt from the requirements of OAC chapter 3745-18 as long as on any calendar day the fuel burned in this emissions unit has a heat content greater than 950 Btu per standard cubic foot and a sulfur content less than 0.6 pounds per million standard cubic feet and is the only fuel burned.

On September 1, 2003, OAC rule 3745-18-06 was revised to delete the following phase: "having a heat content greater than 950 Btu per standard cubic foot and a sulfur content less than 0.6 pounds per million standard cubic feet". Therefore, this phase is no longer part of the State regulations. However, that rule revision has not yet been submitted to the U.S. EPA as a revision to Ohio's State Implementation Plan (SIP). Therefore, until the SIP revision occurs and the U.S. EPA approves the revisions to OAC rule 3745-18-06, the requirements still exist as part of the federally-approved SIP for Ohio.

- 2.e** The permittee is exempt from the requirements of this rule, since this emissions unit has a heat input at peak load less than 10 mmBtu/hr.
- 2.f** The permittee is exempt from the requirements of this rule, since this emissions unit is not located at a major source of HAP emissions.
- 2.g** The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).
- 2.h** The permittee has satisfied the "best available control techniques and operating practices" required pursuant to OAC rule 3745-21-08(B) by complying with all applicable rules.

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

B. Operational Restrictions

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

C. Monitoring and/or Recordkeeping 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.

D. 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.

E. Testing Requirements

- 1. Compliance with the emissions limitation(s) in section A.I.1 of these terms and

conditions shall be determined in accordance with the following methods:

a. Emission Limitation:

5% opacity as a 6-minute average

Applicable Compliance Method:

If required, compliance shall be demonstrated based upon the procedures specified in Method 9 of 40 CFR Part 60, Appendix A.

b. Emission Limitation:

0.75 lb/hr CO emissions

Applicable Compliance Method

Multiply the CO emission factor supplied by the permittee of $2.49E-02$ lb/kWh_e times 30 kWh_e. The maximum hourly CO emissions occur when the emissions unit is operating at 50% load (30 kWh_e). If required, the permittee shall demonstrate compliance using Methods 1 through 4 and 10 of 40 CFR part 60, Appendix A. Alternative U.S. EPA-approved test methods can be used with prior approval from Ohio EPA.

c. Emission Limitation:

3.3 tons/yr CO emissions

Applicable Compliance Method:

Annual allowable emissions are based on the hourly allowable emission rate multiplied by 8760 hours per year and divided by 2000 pounds/ton. Therefore, compliance with the hourly CO emission limitation constitutes compliance with the annual CO emission limitation.

d. Emission Limitation:

0.002 lb/hr PE

Applicable Compliance Method:

Multiply the AP-42 particulate matter emission factor of 0.0019 lb/mmBtu heat input (AP-42 Table 3.1-2a dated 4/2000) by the maximum heat input of 0.804 mmBtu/hr. If required, compliance shall be demonstrated based upon the procedures specified in Methods 1-5 of 40 CFR Part 60, Appendix A. Alternative U.S. EPA-approved test methods can be used with prior approval from Ohio EPA.

e. Emission Limitation:

0.009 ton/yr PE

Applicable Compliance Method:

Annual allowable emissions are based on the hourly allowable emission rate multiplied by 8760 hours per year and divided by 2000 pounds/ton. Therefore, compliance with the hourly particulate emission limitation constitutes compliance with the annual particulate emission limitation.

f. Emission Limitation:

0.0104 lb/hr NO_x emissions

Applicable Compliance Method:

Multiply the NO_x emission factor supplied by the permittee of 6.94E-04 lb/kWh_e times 15 kWh_e. The maximum hourly NO_x emissions occur when the emissions unit is operating at 25% load (15 kWh_e). If required, the permittee shall demonstrate compliance using Methods 1 through 4 and 7 of 40 CFR part 60, Appendix A. Alternative U.S. EPA-approved test methods can be used with prior approval from Ohio EPA.

g. Emission Limitation:

0.046 ton/yr NO_x emissions

Applicable Compliance Method:

Annual allowable emissions are based on the hourly allowable emission rate multiplied by 8760 hours per year and divided by 2000 pounds/ton. Therefore,

Emissions Unit ID: P004

compliance with the hourly NO_x emission limitation constitutes compliance with the annual NO_x emission limitation.

h. Emission Limitation:

0.003 lb/hr SO₂ emissions

Applicable Compliance Method

Multiply the AP-42 sulfur dioxide emission factor of 0.0019 lb/mmBtu heat input (AP-42 Table 3.1-2a dated 4/2000) by the maximum heat input of 0.804 mmBtu/hr. If required, the permittee shall demonstrate compliance using Methods 1 through 6C of 40 CFR Part 60, Appendix A. Alternative U.S. EPA-approved test methods can be used with prior approval from Ohio EPA.

i. Emission Limitation:

0.01 ton/yr SO₂ emissions

Applicable Compliance Method

Annual allowable emissions are based on the hourly allowable emission rate multiplied by 8760 hours per year and divided by 2000 pounds/ton. Therefore, compliance with the hourly SO₂ emission limitation constitutes compliance with the annual SO₂ emission limitation.

j. Emission Limitation:

0.31 lbs/hr VOC emissions

Applicable Compliance Method:

Multiply the VOC emission factor supplied by the permittee of 6.94E-04 lb/kWh_e times 30 kWh_e. The maximum hourly VOC emissions occur when the emissions unit is operating at 50% load (30 kWh_e). If required, the permittee shall demonstrate compliance using Methods 1 through 4 and 25 or Methods 1-4 and 25A, as appropriate, of 40 CFR Part 60, Appendix A. Alternative U.S. EPA-approved test methods can be used with prior approval from Ohio EPA.

k. Emission Limitation:

1.4 tons/yr VOC emissions

Applicable Compliance Method:

Annual allowable emissions are based on the hourly allowable emission rate multiplied by 8760 hours per year and divided by 2000 pounds/ton. Therefore, compliance with the hourly VOC emission limitation constitutes compliance with the annual VOC emission limitation.

F. Miscellaneous Requirements

None