Ohio Environmental Protection Agency

Ted Strickland, Governor
Lee Fisher, Lt. Governor
Chris Korleski, Director

6/7/2010

Certified Mail

No	TOXIC REVIEW
No	PSD
No	SYNTHETIC MINOR TO AVOID MAJOR NSR
No	CEMS
No	MACT
Yes	NSPS
No	NESHAPS
No	NETTING
No	MAJOR NON-ATTAINMENT
No	MODELING SUBMITTED

Mr. Robert Perry
Fremont Energy Center, LLC
76 South Main Street (AGO-13)
Akron, OH 44131

RE: FINAL AIR POLLUTION PERMIT-TO-INSTAI
Facility ID: 0372030241
Permit Number: P0106280
Permit Type: Administrative Modification
County: Sandusky

Dear Permit Holder:

Enclosed please find a final Air Pollution Permit-to-Install (PTI) which will allow you to install or modify the described emissions unit(s) in a manner indicated in the permit. Because this permit contains several conditions and restrictions, we urge you to read it carefully. Please complete a survey at www.epa.ohio.gov/dapc/permitsurvey.aspx and give us feedback on your permitting experience. We value your opinion.

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

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

The Ohio EPA is encouraging companies to investigate pollution prevention and energy conservation. Not only will this reduce pollution and energy consumption, but it can also save you money. If you would like to learn ways you can save money while protecting the environment, please contact our Office of Compliance Assistance and Pollution Prevention at (614) 644-3469. If you have any questions regarding this permit, please contact the Ohio EPA DAPC, Northwest District Office. This permit can be accessed electronically on the Division of Air Pollution Control (DAPC) Web page, www.epa.ohio.gov/dapc by clicking the "Issued Air Pollution Control Permits" link.

Sincerely,

Michael W. Ahern

Michael W. Ahern, Manager
Permit Issuance and Data Management Section, DAPC

Cc: U.S. EPA
Ohio EPA-NWDO; Michigan; Canada

50 West Town Street, Suite 700
P.O. Box 1049
Columbus, OH 43216-1049

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Ohio | Environmental Protection Agency

FINAL

Division of Air Pollution Control
Permit-to-Install
for
Fremont Energy Center, LLC

Facility ID:	0372030241
Permit Number:	P0106280
Permit Type:	Administrative Modification
Issued:	6/7/2010
Effective:	6/7/2010

Ohio Environmental Protection Agency

Division of Air Pollution Control
Permit-to-Install
for
Fremont Energy Center, LLC

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Authorization

Facility ID: 0372030241
Facility Description: 500 MW Combined Cycle Electric Generating Facility
Application Number(s): M0000750
Permit Number: P0106280
Permit Description: Administrative modification to change the total dissolved solids content for the cooling tower (P003) and to change the operational restriction restriction language for the electrical turbines (P001 and P002) regarding periods of start-up and shut-down.
Permit Type: Administrative Modification
Permit Fee: $1,100.00
Issue Date: 6/7/2010
Effective Date: 6/7/2010

This document constitutes issuance to:

Fremont Energy Center, LLC
County Road 138
Fremont, OH 43420

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

Ohio EPA District Office or local air agency responsible for processing and administering your permit:

Ohio EPA DAPC, Northwest District Office
347 North Dunbridge Road
Bowling Green, OH 43402
(419)352-8461

The above named entity is hereby granted a Permit-to-Install for the emissions unit(s) listed in this section pursuant to Chapter 3745-31 of the Ohio Administrative Code. Issuance of this permit does not constitute expressed or implied approval or agreement that, if constructed or modified in accordance with the plans included in the application, the 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

Chris Korleski
Director

Authorization (continued)

Permit Number: P0106280
Permit Description: Administrative modification to change the total dissolved solids content for the cooling tower (P003) and to change the operational restriction restriction language for the electrical turbines (P001 and P002) regarding periods of start-up and shut-down.

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

Emissions Unit ID:	**P001**
Company Equipment ID:	combined cycle turbine and duct burner
Superseded Permit Number:	03-13549
General Permit Category and Type:	Not Applicable
Emissions Unit ID:	**P002**
Company Equipment ID:	combined cycle turbine and duct burner
Superseded Permit Number:	03-13549
General Permit Category and Type:	Not Applicable
Emissions Unit ID:	**P003**
Company Equipment ID:	cooling tower
Superseded Permit Number:	03-13549
General Permit Category and Type:	Not Applicable

A. Standard Terms and Conditions

1. Federally Enforceable Standard Terms and Conditions

a) All Standard Terms and Conditions are federally enforceable, with the exception of those listed below which are enforceable under State law only:

(1) Standard Term and Condition A.2.a), Severability Clause

(2) Standard Term and Condition A.3.c) through A. 3.e) General Requirements

(3) Standard Term and Condition A.6.c) and A. 6.d), Compliance Requirements

(4) Standard Term and Condition A.9., Reporting Requirements

(5) Standard Term and Condition A.10., Applicability

(6) Standard Term and Condition A.11.b) through A.11.e), Construction of New Source(s) and Authorization to Install

(7) Standard Term and Condition A.14., Public Disclosure

(8) Standard Term and Condition A.15., Additional Reporting Requirements When There Are No Deviations of Federally Enforceable Emission Limitations, Operational Restrictions, or Control Device Operating Parameter Limitations

(9) Standard Term and Condition A.16., Fees

(10) Standard Term and Condition A.17., Permit Transfers

2. Severability Clause

a) A determination that any term or condition of this permit is invalid shall not invalidate the force or effect of any other term or condition thereof, except to the extent that any other term or condition depends in whole or in part for its operation or implementation upon the term or condition declared invalid.

b) All terms and conditions designated in parts B and C of this permit are federally enforceable as a practical matter, if they are required under the Act, or any of its applicable requirements, including relevant provisions designed to limit the potential to emit of a source, are enforceable by the Administrator of the U.S. EPA and the State and by citizens (to the extent allowed by section 304 of the Act) under the Act. Terms and conditions in parts B and C of this permit shall not be federally enforceable and shall be enforceable under State law only, only if specifically identified in this permit as such.

3. General Requirements

a) The permittee must comply with all terms and conditions of this permit. Any noncompliance with the federally enforceable terms and conditions of this permit constitutes a violation of the Act, and is grounds for enforcement action or for permit revocation, revocation and re-issuance, or modification.

b) It shall not be a defense for the permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the federally enforceable terms and conditions of this permit.

c) This permit may be modified, revoked, or revoked and reissued, for cause. The filing of a request by the permittee for a permit modification, revocation and reissuance, or revocation, or of a notification of planned changes or anticipated noncompliance does not stay any term and condition of this permit.

d) This permit does not convey any property rights of any sort, or any exclusive privilege.

e) 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 or revoking this permit or to determine compliance with this permit. Upon request, the permittee shall also furnish to the Director or an authorized representative of the Director, copies of records required to be kept by this permit. For information claimed to be confidential in the submittal to the Director, if the Administrator of the U.S. EPA requests such information, the permittee may furnish such records directly to the Administrator along with a claim of confidentiality.

4. Monitoring and Related Record Keeping and Reporting Requirements

a) Except as may otherwise be provided in the terms and conditions for a specific emissions unit, the permittee shall maintain records that include the following, where applicable, for any required monitoring under this permit:

(1) The date, place (as defined in the permit), and time of sampling or measurements.

(2) The date(s) analyses were performed.

(3) The company or entity that performed the analyses.

(4) The analytical techniques or methods used.

(5) The results of such analyses.

(6) The operating conditions existing at the time of sampling or measurement.

b) 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.

c) Except as may otherwise be provided in the terms and conditions for a specific emissions unit, the permittee shall submit required reports in the following manner:

(1) Reports of any required monitoring and/or recordkeeping of federally enforceable information shall be submitted to the Ohio EPA DAPC, Northwest District Office.

(2) Quarterly written reports of (i) any deviations from federally enforceable emission limitations, operational restrictions, and control device operating parameter limitations, excluding deviations resulting from malfunctions reported in accordance with OAC rule 3745-15-06, that have been detected by the testing, monitoring and recordkeeping requirements specified in this permit, (ii) the probable cause of such deviations, and (iii) any corrective actions or preventive measures taken, shall be made to the Ohio EPA DAPC, Northwest District Office. The written reports shall be submitted (i.e., postmarked) quarterly, by January 31, April 30, July 31, and October 31 of each year and shall cover the previous calendar quarters. See A.15. below if no deviations occurred during the quarter.

(3) Written reports, which identify any deviations from the federally enforceable monitoring, recordkeeping, and reporting requirements contained in this permit shall be submitted (i.e., postmarked) to the Ohio EPA DAPC, Northwest District Office every six months, by January 31 and July 31 of each year for the previous six calendar months. If no deviations occurred during a six-month period, the permittee shall submit a semi-annual report, which states that no deviations occurred during that period.

(4) This permit is for an emissions unit located at a Title V facility. Each written report shall be signed by a responsible official certifying that, based on information and belief formed after reasonable inquiry, the statements and information in the report are true, accurate, and complete.

d) The permittee shall report actual emissions pursuant to OAC Chapter 3745-78 for the purpose of collecting Air Pollution Control Fees.

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, i.e., upset, of any emissions units or any associated air pollution control system(s) shall be reported to the Ohio EPA DAPC, Northwest District Office in accordance with paragraph (B) of OAC rule 3745-15-06. (The definition of an upset condition shall be the same as that used in OAC rule 3745-15-06(B)(1) for a malfunction.) The verbal and written reports shall be submitted pursuant to 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 emission unit(s) that is (are) served by such control system(s).

6. Compliance Requirements

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

b) Any document (including reports) required to be submitted and required by a federally applicable requirement in this permit shall include a certification by a responsible official that, based on information and belief formed after reasonable inquiry, the statements in the document are true, accurate, and complete.

c) Upon presentation of credentials and other documents as may be required by law, the permittee shall allow the Director of the Ohio EPA or an authorized representative of the Director to:

(1) At reasonable times, enter upon the permittee's premises where a source is located or the emissions-related activity is conducted, or where records must be kept under the conditions of this permit.

(2) Have access to and copy, at reasonable times, any records that must be kept under the conditions of this permit, subject to the protection from disclosure to the public of confidential information consistent with ORC section 3704.08.

(3) Inspect at reasonable times any facilities, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under this permit.

(4) As authorized by the Act, sample or monitor at reasonable times substances or parameters for the purpose of assuring compliance with the permit and applicable requirements.

d) The permittee shall submit progress reports to the Ohio EPA DAPC, Northwest District Office concerning any schedule of compliance for meeting an applicable requirement. Progress reports shall be submitted semiannually or more frequently if specified in the applicable requirement or by the Director of the Ohio EPA. Progress reports shall contain the following:

(1) Dates for achieving the activities, milestones, or compliance required in any schedule of compliance, and dates when such activities, milestones, or compliance were achieved.

(2) An explanation of why any dates in any schedule of compliance were not or will not be met, and any preventive or corrective measures adopted.

7. Best Available Technology

As specified in OAC Rule 3745-31-05, new sources that must employ Best Available Technology (BAT) shall comply with the Applicable Emission Limitations/Control Measures identified as BAT for each subject emissions unit.

8. 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.

9. Reporting Requirements

The permittee shall submit required reports in the following manner:

a) Reports of any required monitoring and/or recordkeeping of state-only enforceable information shall be submitted to the Ohio EPA DAPC, Northwest District Office.

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 state-only required 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 Ohio EPA DAPC, Northwest District Office. 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 (i.e., postmarked) quarterly, 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.)

10. Applicability

This Permit-to-Install is applicable only to the emissions unit(s) identified in the Permit-to-Install. Separate application must be made to the Director for the installation or modification of any other emissions unit(s).

11. Construction of New Sources(s) and Authorization to Install

a) This permit does not constitute an assurance that the proposed source will operate in compliance with all Ohio laws and regulations. This permit does not constitute expressed or implied assurance that the proposed facility has been constructed in accordance with the application and terms and conditions of this permit. 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 this permit does not constitute an assurance that the proposed source will operate in compliance with all Ohio laws and regulations. Issuance of this permit 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.

b) If applicable, authorization to install any new emissions unit included in this permit shall terminate within eighteen months of the effective date of the permit if the owner or operator has not undertaken a continuing program of installation or has not entered into a binding contractual obligation to undertake and complete within a reasonable time a continuing program of installation. 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.

c) The permittee may notify Ohio EPA of any emissions unit that is permanently shut down (i.e., the emissions unit has been physically removed from service or has been altered in such a way that it can no longer operate without a subsequent "modification" or "installation" as defined in OAC Chapter 3745-31) by submitting a certification from the authorized official that identifies the date on which the emissions unit was permanently shut down. Authorization to operate the affected emissions unit shall cease upon the date certified by the authorized official that the emissions unit was permanently shut down. At a minimum, notification of permanent shut down shall be made or confirmed by marking the affected emissions unit(s) as "permanently shut down" in Ohio EPA's "Air Services" along with the date the emissions unit(s) was permanently removed and/or disabled. Submitting the facility profile update will constitute notifying of the permanent shutdown of the affected emissions unit(s).

d) The provisions of this permit shall cease to be enforceable for each affected emissions unit after the date on which an emissions unit is permanently shut down (i.e., emissions unit has been physically removed from service or has been altered in such a way that it can no longer operate without a subsequent "modification" or "installation" as defined in OAC Chapter 3745-31). All records relating to any permanently shutdown emissions unit, generated while the emissions unit was in operation, must be maintained in accordance with law. All reports required by this permit must be submitted for any period an affected emissions unit operated prior to permanent shut down. At a minimum, the permit requirements must be evaluated as part of the reporting requirements identified in this permit covering the last period the emissions unit operated.

No emissions unit certified by the authorized official as being permanently shut down may resume operation without first applying for and obtaining a permit pursuant to OAC Chapter 3745-31.

e) The permittee shall comply with any residual requirements related to this permit, such as the requirement to submit a deviation report, air fee emission report, or other any reporting required by this permit for the period the operating provisions of this permit were enforceable, or as required by regulation or law. All reports shall be submitted in a form and manner prescribed by the Director. All records relating to this permit must be maintained in accordance with law.

12. Permit-To-Operate Application

The permittee is required to apply for a Title V permit pursuant to OAC Chapter 3745-77. The permittee shall submit a complete Title V permit application or a complete Title V permit modification application within twelve (12) months after commencing operation of the emissions units covered by this permit. However, if the proposed new or modified source(s) would be prohibited by the terms and conditions of an existing Title V permit, a Title V permit modification must be <u>obtained before</u> the operation of such new or modified source(s) pursuant to OAC rule 3745-77-04(D) and OAC rule 3745-77-08(C)(3)(d).

13. Construction Compliance Certification

The applicant shall identify the following dates in the online facility profile for each new emissions unit identified in this permit.

a) Completion of initial installation date shall be entered upon completion of construction and prior to start-up.

b) Commence operation after installation or latest modification date shall be entered within 90 days after commencing operation of the applicable emissions unit.

14. 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.

15. Additional Reporting Requirements When There Are No Deviations of Federally Enforceable Emission Limitations, Operational Restrictions, or Control Device Operating Parameter Limitations

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., postmarked), by January 31, April 30, July 31, and October 31 of each year and shall cover the previous calendar quarters.

16. 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 any permit-to-install. The permittee shall pay all applicable permit-to-operate fees within thirty days of the issuance of the invoice.

17. Permit Transfers

Any transferee of this permit shall assume the responsibilities of the prior permit holder. The new owner must update and submit the ownership information via the “Owner/Contact Change” functionality in Air Services once the transfer is legally completed. The change must be submitted through Air Services within thirty days of the ownership transfer date.

18. Risk Management Plans

If the permittee is required to develop and register a risk management plan pursuant to section 112(r) of the Clean Air Act, as amended, 42 U.S.C. 7401 et seq. ("Act"), the permittee shall comply with the requirement to register such a plan.

19. Title IV Provisions

If the permittee is subject to the requirements of 40 CFR Part 72 concerning acid rain, the permittee shall ensure that any affected emissions unit complies with those requirements. Emissions exceeding any allowances that are lawfully held under Title IV of the Act, or any regulations adopted thereunder, are prohibited.

B. Facility-Wide Terms and Conditions

1. All the following facility-wide terms and conditions are federally enforceable with the exception of those listed below which are enforceable under state law only:

   a) None.

C. Emissions Unit Terms and Conditions

1. P001, combined cycle turbine and duct burner

Operations, Property and/or Equipment Description:

Combined Cycle Turbine & Duct Burner

a) 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.

b) Applicable Emissions Limitations and/or Control Requirements

(1) The specific operations(s), property, and/or equipment that constitute each emissions unit along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from each unit shall not exceed the listed limitations, and the listed control measures shall be specified in narrative form following the table.

	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
a.	OAC Rule 3745-31-05 (A)(3)	See b)(2)b. Visible Particulate Emissions shall not exceed 10 percent opacity as a six-minute average. Allowable Emissions Rates without duct burners firing (and with duct burners firing) 3.5 ppmvd nitrogen oxides (NO_x) at 15% Oxygen, 27.6 lbs NO_x/hr (35.9 lbs NO_x/hr) and 199.1 tons NO_x/yr** 5.0 ppmvd carbon monoxide (CO) at 15% Oxygen (25.0 ppmvd CO at 15% Oxygen)*, 23.0 lbs CO/hr (139.5 lbs CO/hr)* and 607.7 tons CO/yr** 3.9 lbs volatile organic compounds (VOC)/hr (30.0 lbs VOC/hr) and 106.0 tons VOC/yr** 0.0066 particulate emissions (PE)/MM Btu heat input (0.0091 lb PE/MMBtu heat input), 13.7 lbs PE/hr (24.7 lbs PE/hr) and103.0 tons PE/yr 0.0057 lbs sulfur dioxide (SO_2)/MM Btu heat input, 11.9 lbs SO_2/hr (16.1 lbs SO_2/hr) and 65.8 tons SO_2/yr

	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
		2.7 lbs sulfuric acid (H_2SO_4)/hr (3.7 lbs H_2SO_4/hr) and 15.1 tons H_2SO_4/year 1.23 lbs formaldehyde/hr (1.75 lbs formaldehyde/hr) and 7.2 tons formaldehyde/yr 23.7 lbs ammonia/hr (24.0 lbs ammonia/hr) and 97.8 tons ammonia/yr Start-up and shut-down emissions 67.3 tons NOx/yr 296.7 tons CO/yr 32.0 tons VOC/yr
b.	40 CFR 52.21 OAC rules 3745-31-10 through 3745-31-20	See b)(2)a. 199.1 tons NO_x, 607.7 tons CO, 106.0 tons VOC, 103.0 tons PE, 65.8 tons SO_2, and 15.1 tons H_2SO_4 per rolling 12-month period**
c.	OAC Rule 3745-17-07(A)(1)	See b)(2)c.
d.	40 CFR Part 60, Subpart GG	See b)(2)c.
e.	40 CFR Part 60, Subpart Da	See b)(2)c.
f.	OAC rule 3745-18-06(F)	See b)(2)c.
g.	OAC Rule 3745-17-11(B)(4)	See b)(2)c.
h.	OAC Rule 3745-103	See b)(2)d.
i.	40 CFR Part 75	See b)(2)d.

(2) Additional Terms and Conditions

a. Per the requirements of 40 CFR 52.21, the permittee is required to perform a Best Available Control Technology (BACT) review for NO_x, SO_2, CO, PE/PM_{10}, H_2SO_4, and VOC. The emissions limits based on the BACT requirements are listed under OAC rule 3745-31-05(A)(3) above. The following determinations have been made for each pollutant:

PE- Burning natural gas in an efficient combustion turbine. For this permit, it is assumed that all PE emissions are PM_{10}.

NO_x- Use of DLN burners and employment of SCR with a controlled rate of 3.5 ppmvd at 15% Oxygen.

CO- Use of an oxidation catalyst with a controlled rate of 5 ppmvd at 15% Oxygen at greater than 75% load.

VOC- Use of efficient combustion technology in the operation of the turbine with an indirect benefit from the oxidation catalyst.

SO_2- Burning natural gas in an efficient combustion turbine.

H_2SO_4- Burning natural gas in an efficient combustion turbine.

b. The requirements of this rule also include compliance with the requirements of 40 CFR 60 Subpart GG, 40 CFR 52.21, and OAC 3745-31-13 to 20.

c. The emissions limit based on this applicable rule is less stringent than the limit established pursuant to OAC rule 3745-31-05(A) (3).

d. If the permittee is subject to the requirements of 40 CFR Part 75 concerning acid rain, the permittee shall ensure that any affected emissions unit complies with those requirements. Emissions exceeding any allowances that are lawfully held under Title IV of the Act, or any regulations adopted thereunder, are prohibited.

* In addition to periods of duct firing, this emission limitation includes the operational periods of 60%-75% load and use of power augmentation.

** The annual emission limits above include 1080 hours of start-up and shut-down emissions. It has been determined that there are additional NOx, CO, and VOC emissions associated with start-up and shut-down periods with estimated worst case emissions rates as described in conditiond)2.

c) Operational Restrictions

(1) As specified in the permittee's PTI application, the maximum heat input rating of this emissions unit is 2812 MM Btu/hr. This value corresponds to a maximum natural gas fuel flow of 2.812 million scf/hr, with a lower heat value of 1000 MMBtu/million scf. The permittee shall operate this emissions unit within the parameters specified above, except for start-up* and shut-down. Start-up and shut-down periods shall be defined as any time the unit is operating at less than 60 % load.

*Start-up for testing purposes shall be defined as the date when emission unit P001 is set in operation for any purpose. Start-up for the daily operation of the turbine is described in conditionc)1.

(2) The permittee shall burn only natural gas in this emissions unit. The maximum sulfur content of the natural gas shall not exceed 2 grains per 100scf.

(3) The permittee shall be limited to 1080 hours of operation per year for start-ups and shut-downs for this emissions unit.

(4) During the first 12 month of operation following startup, the permittee shall be limited to the following emission limits for NOx and CO (including start-up and shut-down emissions):

Month(s)	Emission Limitations NOx	CO
1	35.0	100.0
1-2	70.0	200.0
1-3	105.0	300.0
1-4	140.0	400.0
1-5	175.0	500.0
1-12	199.1	607.7

d) Monitoring and/or Recordkeeping Requirements

(1) The permittee shall maintain monthly records of the following information for this emissions unit:

a. number and duration of each cold and hot start-up;

b. number and duration of each shut-down;

c. the start-up and shut-down emissions* for NO_x, CO, and VOC, in tons per month.

(2) The permittee shall maintain monthly records of the following information for this emissions unit:

a. the natural gas usage rate for each month (in standard cubic feet);

b. the hours of operation for the turbine;

c. the hours of operation for the duct burner;

d. the monthly emission rate* for PE, NO_x, SO_2, CO, VOC, formaldehyde, ammonia and H_2SO_4, in tons;

e. the annual, year to date emissions of formaldehyde and ammonia, in tons;

f. during the first 12 calendar months of operation following startup, the cumulative emission rate for NO_x and CO (including start-up and shut-down emissions), in tons; and

g. beginning the first 12 calendar months of operation following startup, the rolling 12-month summation of the emission rate for PE, NO_x, SO_2, CO, VOC and H_2SO_4 (including start-up and shut-down emissions), in tons.

*The permittee shall use continuous emissions monitoring (CEM) data to determine emissions for those pollutants where a CEM is installed. During the periods where a CEM is not operational or for pollutants where a CEM is not installed, the permittee shall

use the most recent testing data/emission factors available for each respective pollutant, including the following emission factors for cold (and hot) start-ups: 123 (129) lbs NO_x/hr, 451 (472) lbs CO/hr, and 41.4 (43.1) lbs VOC/hr; for shut-downs: 78 lbs NO_x/hr, 560 lbs CO/hr and 78 lbs VOC/hr.

(3) 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.

(4) The permittee shall operate and maintain equipment to continuously monitor* and record NOx and CO from this emission unit in the units established in this permit. Such continuous monitoring and recording equipment shall comply with the requirements specified in 40 CFR Part 60.13 or as approved by the Oho EPA, Central Office.

The permittee shall maintain records of all data obtained by the continuous NO_x and CO monitoring systems including, but not limited to, parts per million NO_x on an instantaneous (one-minute) basis, emissions of NOx and CO in the units established in this permit (with a three hour block averaging period), results of daily zero/span calibration checks, and magnitude of manual calibration adjustments.

(5) The permittee shall operate and maintain equipment to continuously monitor and record the O_2. Such continuous monitoring and recording equipment shall comply with the requirements specified in 40 CFR Part 60.13 or as approved by the Ohio EPA, Central Office. The permittee may install a CO_2 monitor in lieu of an O_2 monitor with prior approval from the Ohio EPA, Central Office. The permittee shall maintain records of all data obtained by the continuous O_2 monitoring system including, but not limited to percent O_2 on an instantaneous (one-minute) basis, results of daily zero/span calibration checks and magnitude of manual calibration adjustments.

*The installation and operation of systems to continuously monitor and record emissions of NO_x may be performed in lieu of monitoring the nitrogen content of the fuels being fired in the turbine, as required by 40 CFR 60.334(b).

(6) The information management system for this emissions unit shall be capable of monitoring and recording the fuel flow (million cu ft) and hours of operation with duct burner firing and without duct burner firing.

(7) The permittee shall maintain documentation on the sulfur contents and heating values of the fuels received. ASTM D 2880-71 shall be used to determine the sulfur content of liquid fuels and ASTM D 1072-80, D 3031-81, D 4084-82, or D 3246-81 shall be used for the sulfur content of gaseous fuels. The permittee shall determine the heat value of the fuels using ASTM method D240. The applicable ranges of some ASTM methods mentions above are not adequate to measure the levels of sulfur in some fuel gases. Dilution of samples before analysis (with verification of the dilution ration) may be used, subject to the approval of the Ohio EPA. The newest or most recent revisions to the applicable test method shall be used for these analyses.

Alternative, equivalent methods and frequencies of sampling schedules may be used if they comply with the requirements specified in 40 CFR Part 60.13, and upon written approval by the Ohio EPA.

e) Reporting Requirements

(1) The permittee shall submit deviation (excursion) reports that identify each day when a fuel other than natural gas with a sulfur content of no more than 2 grains per 100 scf was burned in this emissions unit. These reports are due by the date described in Part A-StandardTerms and Conditions of this permit.

(2) Pursuant to OAC rules 3745-15-04, 3745-35-02, and ORC sections 3704.03(I) and 3704.031 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 Ohio EPA, Northwest District Office documenting the date, commencement and completion time, duration, magnitude, reason (if known), and corrective actions taken (if any), of all instances of NO_x or CO values in excess of the limits specified in the terms and conditions of this permit.

The permittee shall submit reports within 30 days following the end of each calendar quarter to the Ohio EPA Northwest District Office documenting any continuous NO_x, CO, or O_2 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. 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.

If there are no excess emissions during the calendar quarter, the permittee shall submit a statement to that effect along with 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, control equipment, and/or 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 also shall 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 rules 3745-15-04, 3745-35-02, and ORC sections 3704.03(I) and 3704.031, the permittee shall submit a summary of the excess emission report pursuant to 40 CFR Part 60.7. The summary shall be submitted to the Ohio EPA, Northwest District Office within 30 days following the end of each calendar quarter in a manner prescribed by the Director.

(3) In lieu of the excess emissions reports required under 40 CFR Part 60.334, the permittee shall submit excess and emissions reports for this emissions unit in accordance with this permit.

(4) Unless otherwise specified, the above reports are due by the date described in Part A-StandardTerms and Conditions of this permit under sectionA.5.

(5) Pursuant to 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 appropriate Ohio EPA District

Office or local air agency documenting all instances of continuous O_2 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 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 be included in the quarterly report. These quarterly 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.

(6) Pursuant to OAC rules 3745-15-04, 3745-35-02, and ORC sections 3704.03(I) and 3704.031, the permittee shall submit a summary of the excess emission report pursuant to 40 CFR Part 60.7. The summary shall be submitted to the appropriate Ohio EPA District Office or local air agency within 30 days following the end of each calendar quarter in a manner prescribed by the Director.

(7) The permittee shall submit deviation (excursion) reports that identify each time when this emissions unit was not in compliance with the start-up/shut-down restrictions specified under c)above. These reports are due by the date described in Part A– Standard Terms and Conditions of this permit.

(8) This emissions unit is subject to the applicable provisions of Subpart Da and GG of the New Source Performance Standards (NSPS) as promulgated by the United States Environmental Protection Agency, 40 CFR Part 60. The application and enforcement of these standards are delegated to the Ohio EPA. The requirements of 40 CFR Part 60 are also federally enforceable.

Pursuant to 40 CFR Part 60.7, the permittee is hereby advised of the requirement to report the following at the appropriate times:

a. construction date (no later than 30 days after such date);

b. anticipated start-up date (not more than 60 days or less than 30 days prior to such date);

c. actual start-up date (within 15 days after such date); and

d. date of performance testing (if required, at least 30 days prior to testing).

Reports are to be sent to:

Ohio Environmental Protection Agency
DAPC - Permit Management Unit
P. O. Box 163669
Columbus, Ohio 43216-3669

and

Ohio Environmental Protection Agency
Northwest District Office
Division of Air Pollution Control
347 North Dunbridge Road
Bowling Green, Ohio 43402

f) Testing Requirements

(1) The permittee shall conduct, or have conducted, emission testing for this emissions unit in accordance with the following requirements:

a. The emission testing* shall be conducted within 60 days after achieving the maximum production rate at which the emissions unit will be operated, but not later than 180 days after initial startup of such emissions unit.

b. The emission testing* shall be conducted to demonstrate compliance with the NO_x and CO, outlet concentrations, the lbs/MMBtu limitations for SO_2, PE, and the mass emissions limitations for NO_x, CO, VOC, SO_2, PE, ammonia**,** and formaldehyde. Testing shall be conducted when firing the turbine only (without power augmentation) and when firing the turbine (with power augmentation) and the duct burner simultaneously.

c. The following test method(s) shall be employed to demonstrate compliance with the above emissions limitations:

NO_x	Method 20 of 40 CFR Part 60, Appendix A
PE	Method 5 of 40 CFR Part 60, Appendix A
Formaldehyde	SW-846 Method 0011 or EPA Method 316
VOC	Method 25 of 40 CFR Part 60, Appendix A
SO_2	Method 6 of 40 CFR Part 60, Appendix A**
CO	Method 10 of 40 CFR Part 60, Appendix A
Ammonia	CTM-027

Alternative U.S. EPA approved test methods may be used with prior approval from the Ohio EPA, NWDO.

d. The stack on this emissions unit shall be constructed such that the height and port locations meet the minimum requirements necessary to perform Methods 1-4 of 40 CFR Part 60, Appendix A.

e. The testing shall be performed at peak load (as defined by 40 CFR Part 60, Subpart GG), unless otherwise specified or approved by the Ohio EPA, NWDO.

f. Not later than 45 days prior to the proposed test date(s), the permittee shall submit an "Intent to Test" notification to the Ohio EPA, NWDO. The "Intent to Test" notification shall describe in detail the proposed test methods and procedures, the emissions unit operating parameters, the time(s) and date(s) of the tests, and the person(s) who will be conducting the tests. Failure to submit such notification for review and approval prior to the tests may result in the Ohio EPA, NWDO refusal to accept the results of the emission tests.

g. Personnel from the Ohio EPA, NWDO shall be permitted to witness the tests, examine the testing equipment, and acquire data and information necessary to ensure that the operation of the emissions unit and the testing procedures provide a valid characterization of the emissions from the emissions unit and/or the performance of the control equipment.

h. A comprehensive written report on the results of the emissions tests shall be signed by the person or persons responsible for the tests and submitted to the Ohio EPA, NWDO within 30 days following completion of the tests. The permittee may request additional time for the submittal of the written report, where warranted, with prior approval from the Ohio EPA, NWDO.

* In lieu of the test methods and procedures required under 40 CFR Part 60.335, the permittee shall follow the testing requirements in accordance with this permit.

** In lieu of the initial SO2 emissions testing required above, the permittee may sample the Sulfur content of the fuel as provided for in 40 CFR Subpart GG.

(2) Within 60 days after achieving the maximum production rate at which the emissions unit will be operated, but not later than 180 days after initial startup of such emissions unit, the permittee shall conduct certification tests of the continuous NO_x and CO monitoring systems pursuant to ORC section 3704.03(I) and 40 CFR Part 60, Appendix B, Performance Specification 6*. Personnel from the Ohio EPA, Northwest District Office shall be notified 30 days prior to initiation of the applicable tests and shall be permitted to examine equipment and witness the certification tests. In accordance with OAC rule 3745-15-04, copies of all the test results shall be submitted within 30 days after the test is completed. Copies of the test results shall be sent to the Ohio EPA, Northwest District Office and the Ohio EPA, Central Office. Certification of the continuous NO_x and CO monitoring systems shall be granted upon determination by the Ohio EPA, Central Office that the system meets all requirements of ORC section 3704.03(I) and 40 CFR Part 60, Appendix B, Performance Specification 6*.

(3) Within 60 days after achieving the maximum production rate at which the emissions unit will be operated, but not later than 180 days after initial startup of such emissions unit, the permittee shall conduct certification tests of the continuous O_2 monitoring systems pursuant to ORC section 3704.03(I) and 40 CFR Part 60, Appendix B, Performance Specification 3. Personnel from the Ohio EPA, Northwest District Office shall be notified 30 days prior to initiation of the applicable tests and shall be permitted to examine equipment and witness the certification tests. In accordance with OAC rule 3745-15-04, all copies of the test results shall be submitted within 30 days after the test is completed.

Copies of the test results shall be sent to the Ohio EPA, Northwest District Office and the Ohio EPA, Central Office. Certification of the continuous O_2 monitoring system shall be granted upon determination by the Ohio EPA, Central Office that the system meets all requirements of ORC section 3704.03(I) and 40 CFR Part 60, Appendix B, Performance Specification 3.

* The permittee may use 40 CFR Part 60, Appendix B, Performance Specification 2 and Performance Specification 4 in conjunction with a fuel flow monitor as described in 40 CFR Part 75 to meet these requirements if approved by the Ohio EPA, Central Office.

(4) Compliance with the allowable emission limitations in this permit shall be determined according to the following methods:

a. Emission Limitation
3.5 ppmvd at 15% Oxygen, 27.6 lbs NOx/hr, 35.9 lbs NOx/hr, 199.1 tons NO_x per rolling 12-month period

Applicable Compliance Method
Compliance with the allowable outlet concentration and the lbs/hr emission limitations shall be demonstrated by the performance testing as described in condition f)(1) and CEM requirement as described in conditions d)(5) and f)(2). Compliance with the annual emission limitation shall be determined by the record keeping required in condition d)(2).

b. Emission Limitation
0.0066 lb PE/MMBtu heat input, 0.0091 lb PE/MMBtu heat input, 13.7 lbs PE/hr, 24.7 lbs PE/hr,103.0 tons PE per rolling 12-month period

Applicable Compliance Method
Compliance with the allowable lb/MMBtu heat input emission limitation and the lbs/hr emission limitations shall be demonstrated by the performance testing as described in condition f)(1). Compliance with the annual emission limitations shall be determined by the record keeping required in condition d)(2).

c. Emission Limitation
0.0057 lb SO_2/MMBtu heat input, 11.9 lbs SO_2/hr, 16.1 lbs SO_2/hr, 65.8 tons SO_2 per rolling 12-month period

Applicable Compliance Method
Compliance with the allowable lb/MMBtu heat input emission limitation and the lbs/hr emission limitations shall be demonstrated by the performance testing as described in condition f)(1). Compliance with the annual emission limitations shall be determined by the record keeping required in condition d)(2).

d. Emission Limitation

3.9 lbs VOC/hr, 30.0 lbs VOC/hr, 1060 tons VOC per rolling 12-month period

Applicable Compliance Method
Compliance with the lbs/hr emission limitations shall be demonstrated by the performance testing as described in condition f)(1). Compliance with the annual emission limitations shall be determined by the record keeping required in condition d)(2).

e. Emission Limitation
5.0 ppmvd CO at 15% Oxygen, 25.0 ppmvd CO at 15% Oxygen, 23.0 lbs CO/hr, 139.5 lbs CO/hr, 607.7 tons CO per rolling 12-month period

Applicable Compliance Method
Compliance with the allowable outlet concentrations and the lbs/hr emission limitations shall be demonstrated by the performance testing as described in condition f)(1) and CEM requirement as described in conditions d) and f)(2). Compliance with the annual emission limitations shall be determined by the record keeping required in condition d)(2).

f. Emission Limitation
Visible particulate emissions shall not exceed 10 percent opacity as a six-minute average.

Applicable Compliance Method
Compliance with the visible emissions limitations established by this permit shall be determined by Method 9, 40 CFR Part 60 Appendix A.

g. Emission Limitation
2.7 lbs H_2SO_4/hr, 3.7 lbs H_2SO_4/hr, 15.1 tons H_2SO_4 per rolling 12-month period

Applicable Compliance Method
Compliance with the allowable lbs/hr emission limitations shall be demonstrated by the manufacturer's guaranteed emission rate in conjunction with the sulfur content of the fuel being fired. Compliance with the annual emission limitation shall be determined by the record keeping required in condition d)(2).

h. Emission Limitation
1.23 lbs formaldehyde/hr, 1.75 lbs formaldehyde/hr, 7.2 tons formaldehyde/yr

Applicable Compliance Method
Compliance with the allowable lbs/hr emission limitations shall be demonstrated by the performance testing as described in condition f)(1) Compliance with the annual emission limitation shall be determined by the record keeping required in condition d)(2).

i. Emission Limitation
23.7 lbs ammonia/hr, 24.0 lbs ammonia/hr, 97.8 tons ammonia/yr

Applicable Compliance Method
Compliance with the allowable lbs/hr emission limitations shall be demonstrated by the performance testing as described in condition f)(1). Compliance with the

annual emission limitation shall be determined by the record keeping required in condition d)(2).

j. Emission Limitation
Start-up and shut-down emissions
67.3 tons NOx/yr
296.7 tons CO/yr
32.0 tons VOC/yr

Applicable Compliance Method
Compliance with the annual emission limitations shall be demonstrated by the record keeping required in condition d)(1).

g) Miscellaneous Requirements

(1) Prior to the installation of the continuous NO_x and CO monitoring systems, the permittee shall submit information detailing the proposed location of the sampling site in accordance with the siting requirements in 40 CFR Part 60, Appendix B, Performance Specification 6 [or as described in condition f)(1)] for approval by the Ohio EPA, Central Office.

Prior to the installation of the continuous O_2 monitoring system, the permittee shall submit information detailing the proposed location of the sampling site in accordance with the siting requirements in 40 CFR Part 60, Appendix B, Performance Specification 3 for approval by the Ohio EPA, Central Office.

(2) Within 180 days of the effective date of this permit, the permittee shall develop a written quality assurance/quality control plan for the continuous NO_x, CO, and O_2 monitoring systems designed to ensure continuous valid and representative readings of NO_x, CO, and O_2 emissions in the units established in this permit. The plan shall follow the requirements of 40 CFR Part 60 Appendix F or as approved by the Ohio EPA, Central office. The quality assurance/quality control plan and a logbook dedicated to the continuous NO_x, CO, and O_2 monitoring systems must be kept on site and available for inspection during regular office hours.

(3) This emissions unit, as described in this Permit to Install (PTI), is subject to the applicable provisions of the NSPS, as promulgated by the United States Environmental Protection Agency (U.S. EPA) under 40 CFR Part 60. The requirements of 40 CFR Part 60 are delegated to the Ohio EPA and are federally enforceable.

(4) This emissions unit as described in this PTI is subject to the applicable provisions of the Prevention of Significant Deterioration (PSD) regulations as promulgated by the U. S. EPA. The authority to apply and enforce the PSD regulations has been delegated to the Ohio EPA.

In accordance with 40 CFR 124.15, 124.19 and 124.20, the following shall apply:

a. The effective date of the permit shall be 30 days after the service of notice to any public commentors. The final decision to issue, modify or revoke and re-issue the permit, unless the service of notice is by mail, in which case the effective date of the permit shall be 33 days after the service notice; and

b. if an appeal is made to the Environmental Appeals Board of the U.S. EPA, the effective date of the permit is suspended until such time as the appeal is resolved or denied.

Appeals will be addressed to:

United States Environmental Protection Agency
Environmental Appeals Board
401 M Street, SW (MC-113do)
Washington, D.C. 21460

2. P002, combined cycle turbine and duct burner

Operations, Property and/or Equipment Description:

Combined Cycle Turbine & Duct Burner

a) 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.

b) Applicable Emissions Limitations and/or Control Requirements

(1) The specific operations(s), property, and/or equipment that constitute each emissions unit along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from each unit shall not exceed the listed limitations, and the listed control measures shall be specified in narrative form following the table.

	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
a.	OAC Rule 3745-31-05 (A)(3)	See b)(2)b. Visible Particulate Emissions shall not exceed 10 percent opacity as a six-minute average. Allowable Emissions Rates without duct burners firing (and with duct burners firing) 3.5 ppmvd nitrogen oxides (NO_x) at 15% Oxygen, 27.6 lbs NO_x/hr (35.9 lbs NO_x/hr) and 199.1 tons NO_x/yr** 5.0 ppmvd carbon monoxide (CO) at 15% Oxygen (25.0 ppmvd CO at 15% Oxygen)*, 23.0 lbs CO/hr (139.5 lbs CO/hr)* and 607.7 tons CO/yr** 3.9 lbs volatile organic compounds (VOC)/hr (30.0 lbs VOC/hr) and 106.0 tons VOC/yr** 0.0066 particulate emissions (PE)/MM Btu heat input (0.0091 lb PE/MMBtu heat input), 13.7 lbs PE/hr (24.7 lbs PE/hr) and103.0 tons PE/yr 0.0057 lbs sulfur dioxide (SO_2)/MM Btu heat input, 11.9 lbs SO_2/hr (16.1 lbs SO_2/hr) and 65.8 tons SO_2/yr

	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
		2.7 lbs sulfuric acid (H_2SO_4)/hr (3.7 lbs H_2SO_4/hr) and 15.1 tons H_2SO_4/year 1.23 lbs formaldehyde/hr (1.75 lbs formaldehyde/hr) and 7.2 tons formaldehyde/yr 23.7 lbs ammonia/hr (24.0 lbs ammonia/hr) and 97.8 tons ammonia/yr Start-up and shut-down emissions 67.3 tons NOx/yr 296.7 tons CO/yr 32.0 tons VOC/yr
b.	40 CFR 52.21 OAC rules 3745-31-10 through 3745-31-20	See b)(2)a, 199.1 tons NO_x, 607.7 tons CO, 106.0 tons VOC, 103.0 tons PE, 65.8 tons SO_2, and 15.1 tons H_2SO_4 per rolling 12-month period**
c.	OAC Rule 3745-17-07(A)(1)	See b)(2)c.
d.	40 CFR Part 60, Subpart GG	See b)(2)c.
e.	40 CFR Part 60, Subpart Da	See b)(2)c..
f.	OAC rule 3745-18-06(F)	See b)(2)c.
g.	OAC Rule 3745-17-11(B)(4)	See b)(2)c.
h.	OAC Rule 3745-103	See b)(2)d.
i.	40 CFR Part 75	See b)(2)d.

(2) Additional Terms and Conditions

a. Per the requirements of 40 CFR 52.21, the permittee is required to perform a Best Available Control Technology (BACT) review for NO_x, SO_2, CO, PE/PM_{10}, H_2SO_4, and VOC. The emissions limits based on the BACT requirements are listed under OAC rule 3745-31-05(A)(3) above. The following determinations have been made for each pollutant:

PE- Burning natural gas in an efficient combustion turbine. For this permit, it is assumed that all PE emissions are PM_{10}.

NO_x- Use of DLN burners and employment of SCR with a controlled rate of 3.5 ppmvd at 15% Oxygen.

CO- Use of an oxidation catalyst with a controlled rate of 5 ppmvd at 15% Oxygen at greater than 75% load.

VOC- Use of efficient combustion technology in the operation of the turbine with an indirect benefit from the oxidation catalyst.

SO_2- Burning natural gas in an efficient combustion turbine.

H_2SO_4- Burning natural gas in an efficient combustion turbine.

b. The requirements of this rule also include compliance with the requirements of 40 CFR 60 Subpart GG, 40 CFR 52.21, and OAC 3745-31-13 to 20.

c. The emissions limit based on this applicable rule is less stringent than the limit established pursuant to OAC rule 3745-31-05(A) (3).

d. If the permittee is subject to the requirements of 40 CFR Part 75 concerning acid rain, the permittee shall ensure that any affected emissions unit complies with those requirements. Emissions exceeding any allowances that are lawfully held under Title IV of the Act, or any regulations adopted thereunder, are prohibited.

* In addition to periods of duct firing, this emission limitation includes the operational periods of 60%-75% load and use of power augmentation.

** The annual emission limits above include 1080 hours of start-up and shut-down emissions. It has been determined that there are additional NOx, CO, and VOC emissions associated with start-up and shut-down periods with estimated worst case emissions rates as described in condition d)(2).

c) Operational Restrictions

(1) As specified in the permittee's PTI application, the maximum heat input rating of this emissions unit is 2812 MM Btu/hr. This value corresponds to a maximum natural gas fuel flow of 2.812 million scf/hr, with a lower heat value of 1000 MMBtu/million scf. The permittee shall operate this emissions unit within the parameters specified above, except for start-up* and shut-down. Start-up and shut-down periods shall be defined as any time the unit is operating at less than 60 % load.

*Start-up for testing purposes shall be defined as the date when emission unit P001 is set in operation for any purpose. Start-up for the daily operation of the turbine is described in condition c)(1).

(2) The permittee shall burn only natural gas in this emissions unit. The maximum sulfur content of the natural gas shall not exceed 2 grains per 100scf.

(3) The permittee shall be limited to 1080 hours of operation per year for start-ups and shut-downs for this emissions unit.

(4) During the first 12 month of operation following startup, the permittee shall be limited to the following emission limits for NOx and CO (including start-up and shut-down emissions):

Month(s)	Emission Limitations NOx	CO
1	35.0	100.0
1-2	70.0	200.0
1-3	105.0	300.0
1-4	140.0	400.0
1-5	175.0	500.0
1-12	199.1	607.7

d) Monitoring and/or Recordkeeping Requirements

(1) The permittee shall maintain monthly records of the following information for this emissions unit:

a. number and duration of each cold and hot start-up;

b. number and duration of each shut-down;

c. the start-up and shut-down emissions* for NOx, CO, and VOC, in tons per month.

(2) The permittee shall maintain monthly records of the following information for this emissions unit:

a. the natural gas usage rate for each month (in standard cubic feet);

b. the hours of operation for the turbine;

c. the hours of operation for the duct burner;

d. the monthly emission rate* for PE, NOx, SO2, CO, VOC, formaldehyde, ammonia and H_2SO_4, in tons;

e. the annual, year to date emissions of formaldehyde and ammonia, in tons;

f. during the first 12 calendar months of operation following startup, the cumulative emission rate for NOx and CO (including start-up and shut-down emissions), in tons; and

g. beginning the first 12 calendar months of operation following startup, the rolling 12-month summation of the emission rate for PE, NOx, SO2, CO, VOC and H_2SO_4 (including start-up and shut-down emissions), in tons.

*The permittee shall use continuous emissions monitoring (CEM) data to determine emissions for those pollutants where a CEM is installed. During the periods where a

CEM is not operational or for pollutants where a CEM is not installed, the permittee shall use the most recent testing data/emission factors available for each respective pollutant, including the following emission factors for cold (and hot) start-ups: 123 (129) lbs NOx/hr, 451 (472) lbs CO/hr, and 41.4 (43.1) lbs VOC/hr; for shut-downs: 78 lbs NOx/hr, 560 lbs CO/hr and 78 lbs VOC/hr.

(3) 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.

(4) The permittee shall operate and maintain equipment to continuously monitor* and record NOx and CO from this emission unit in the units established in this permit. Such continuous monitoring and recording equipment shall comply with the requirements specified in 40 CFR Part 60.13 or as approved by the Oho EPA, Central Office.

The permittee shall maintain records of all data obtained by the continuous NOx and CO monitoring systems including, but not limited to, parts per million NOx on an instantaneous (one-minute) basis, emissions of NOx and CO in the units established in this permit (with a three hour block averaging period), results of daily zero/span calibration checks, and magnitude of manual calibration adjustments.

(5) The permittee shall operate and maintain equipment to continuously monitor and record the O_2. Such continuous monitoring and recording equipment shall comply with the requirements specified in 40 CFR Part 60.13 or as approved by the Ohio EPA, Central Office. The permittee may install a CO_2 monitor in lieu of an O_2 monitor with prior approval from the Ohio EPA, Central Office. The permittee shall maintain records of all data obtained by the continuous O_2 monitoring system including, but not limited to percent O_2 on an instantaneous (one-minute) basis, results of daily zero/span calibration checks and magnitude of manual calibration adjustments.

*The installation and operation of systems to continuously monitor and record emissions of NOx may be performed in lieu of monitoring the nitrogen content of the fuels being fired in the turbine, as required by 40 CFR 60.334(b).

(6) The information management system for this emissions unit shall be capable of monitoring and recording the fuel flow (million cu ft) and hours of operation with duct burner firing and without duct burner firing.

(7) The permittee shall maintain documentation on the sulfur contents and heating values of the fuels received. ASTM D 2880-71 shall be used to determine the sulfur content of liquid fuels and ASTM D 1072-80, D 3031-81, D 4084-82, or D 3246-81 shall be used for the sulfur content of gaseous fuels. The permittee shall determine the heat value of the fuels using ASTM method D240. The applicable ranges of some ASTM methods mentions above are not adequate to measure the levels of sulfur in some fuel gases. Dilution of samples before analysis (with verification of the dilution ration) may be used, subject to the approval of the Ohio EPA. The newest or most recent revisions to the applicable test method shall be used for these analyses.

Alternative, equivalent methods and frequencies of sampling schedules may be used if they comply with the requirements specified in 40 CFR Part 60.13, and upon written approval by the Ohio EPA.

e) Reporting Requirements

(1) The permittee shall submit deviation (excursion) reports that identify each day when a fuel other than natural gas with a sulfur content of no more than 2 grains per 100 scf was burned in this emissions unit. These reports are due by the date described in Part A - Standard Terms and Conditions of this permit.

(2) Pursuant to OAC rules 3745-15-04, 3745-35-02, and ORC sections 3704.03(I) and 3704.031 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 Ohio EPA, Northwest District Office documenting the date, commencement and completion time, duration, magnitude, reason (if known), and corrective actions taken (if any), of all instances of NO_x or CO values in excess of the limits specified in the terms and conditions of this permit.

The permittee shall submit reports within 30 days following the end of each calendar quarter to the Ohio EPA Northwest District Office documenting any continuous NO_x, CO, or O_2 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. 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.

If there are no excess emissions during the calendar quarter, the permittee shall submit a statement to that effect along with 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, control equipment, and/or 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 also shall 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 rules 3745-15-04, 3745-35-02, and ORC sections 3704.03(I) and 3704.031, the permittee shall submit a summary of the excess emission report pursuant to 40 CFR Part 60.7. The summary shall be submitted to the Ohio EPA, Northwest District Office within 30 days following the end of each calendar quarter in a manner prescribed by the Director.

(3) In lieu of the excess emissions reports required under 40 CFR Part 60.334, the permittee shall submit excess and emissions reports for this emissions unit in accordance with this permit.

(4) Unless otherwise specified, the above reports are due by the date described in Part A-Standard Terms and Conditions of this permit under section A.5.

(5) Pursuant to 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 appropriate Ohio EPA District

Office or local air agency documenting all instances of continuous O_2 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 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 be included in the quarterly report. These quarterly 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.

(6) Pursuant to OAC rules 3745-15-04, 3745-35-02, and ORC sections 3704.03(I) and 3704.031, the permittee shall submit a summary of the excess emission report pursuant to 40 CFR Part 60.7. The summary shall be submitted to the appropriate Ohio EPA District Office or local air agency within 30 days following the end of each calendar quarter in a manner prescribed by the Director.

(7) time when this emissions unit was not in compliance with the start-up/shut-down restrictions specified under c) above. These reports are due by the date described in Part A- Standard Terms and Conditions of this permit.

(8) This emissions unit is subject to the applicable provisions of Subpart Da and GG of the New Source Performance Standards (NSPS) as promulgated by the United States Environmental Protection Agency, 40 CFR Part 60. The application and enforcement of these standards are delegated to the Ohio EPA. The requirements of 40 CFR Part 60 are also federally enforceable.

Pursuant to 40 CFR Part 60.7, the permittee is hereby advised of the requirement to report the following at the appropriate times:

a. construction date (no later than 30 days after such date);

b. anticipated start-up date (not more than 60 days or less than 30 days prior to such date);

c. actual start-up date (within 15 days after such date); and

d. date of performance testing (if required, at least 30 days prior to testing).

Reports are to be sent to:

Ohio Environmental Protection Agency
DAPC - Permit Management Unit
P. O. Box 163669
Columbus, Ohio 43216-3669

and

Ohio Environmental Protection Agency
Northwest District Office
Division of Air Pollution Control
347 North Dunbridge Road
Bowling Green, Ohio 43402

f) Testing Requirements

(1) The permittee shall conduct, or have conducted, emission testing for this emissions unit in accordance with the following requirements:

a. The emission testing* shall be conducted within 60 days after achieving the maximum production rate at which the emissions unit will be operated, but not later than 180 days after initial startup of such emissions unit.

b. The emission testing* shall be conducted to demonstrate compliance with the NO_x and CO, outlet concentrations, the lbs/MMBtu limitations for SO_2, PE, and the mass emissions limitations for NO_x, CO, VOC, SO_2, PE, ammonia**,** and formaldehyde. Testing shall be conducted when firing the turbine only (without power augmentation) and when firing the turbine (with power augmentation) and the duct burner simultaneously.

c. The following test method(s) shall be employed to demonstrate compliance with the above emissions limitations:

NO_x	Method 20 of 40 CFR Part 60, Appendix A
PE	Method 5 of 40 CFR Part 60, Appendix A
Formaldehyde	SW-846 Method 0011 or EPA Method 316
VOC	Method 25 of 40 CFR Part 60, Appendix A
SO_2	Method 6 of 40 CFR Part 60, Appendix A**
CO	Method 10 of 40 CFR Part 60, Appendix A
Ammonia	CTM-027

Alternative U.S. EPA approved test methods may be used with prior approval from the Ohio EPA, NWDO.

d. The stack on this emissions unit shall be constructed such that the height and port locations meet the minimum requirements necessary to perform Methods 1-4 of 40 CFR Part 60, Appendix A.

e. The testing shall be performed at peak load (as defined by 40 CFR Part 60, Subpart GG), unless otherwise specified or approved by the Ohio EPA, NWDO.

f. Not later than 45 days prior to the proposed test date(s), the permittee shall submit an "Intent to Test" notification to the Ohio EPA, NWDO. The "Intent to Test" notification shall describe in detail the proposed test methods and procedures, the emissions unit operating parameters, the time(s) and date(s) of the tests, and the person(s) who will be conducting the tests. Failure to submit such notification for review and approval prior to the tests may result in the Ohio EPA, NWDO refusal to accept the results of the emission tests.

g. Personnel from the Ohio EPA, NWDO shall be permitted to witness the tests, examine the testing equipment, and acquire data and information necessary to ensure that the operation of the emissions unit and the testing procedures provide a valid characterization of the emissions from the emissions unit and/or the performance of the control equipment.

h. A comprehensive written report on the results of the emissions tests shall be signed by the person or persons responsible for the tests and submitted to the Ohio EPA, NWDO within 30 days following completion of the tests. The permittee may request additional time for the submittal of the written report, where warranted, with prior approval from the Ohio EPA, NWDO.

* In lieu of the test methods and procedures required under 40 CFR Part 60.335, the permittee shall follow the testing requirements in accordance with this permit.

** In lieu of the initial SO2 emissions testing required above, the permittee may sample the Sulfur content of the fuel as provided for in 40 CFR Subpart GG.

(2) Within 60 days after achieving the maximum production rate at which the emissions unit will be operated, but not later than 180 days after initial startup of such emissions unit, the permittee shall conduct certification tests of the continuous NO_x and CO monitoring systems pursuant to ORC section 3704.03(I) and 40 CFR Part 60, Appendix B, Performance Specification 6*. Personnel from the Ohio EPA, Northwest District Office shall be notified 30 days prior to initiation of the applicable tests and shall be permitted to examine equipment and witness the certification tests. In accordance with OAC rule 3745-15-04, copies of all the test results shall be submitted within 30 days after the test is completed. Copies of the test results shall be sent to the Ohio EPA, Northwest District Office and the Ohio EPA, Central Office. Certification of the continuous NO_x and CO monitoring systems shall be granted upon determination by the Ohio EPA, Central Office that the system meets all requirements of ORC section 3704.03(I) and 40 CFR Part 60, Appendix B, Performance Specification 6*.

(3) Within 60 days after achieving the maximum production rate at which the emissions unit will be operated, but not later than 180 days after initial startup of such emissions unit, the permittee shall conduct certification tests of the continuous O_2 monitoring systems pursuant to ORC section 3704.03(I) and 40 CFR Part 60, Appendix B, Performance Specification 3. Personnel from the Ohio EPA, Northwest District Office shall be notified 30 days prior to initiation of the applicable tests and shall be permitted to examine equipment and witness the certification tests. In accordance with OAC rule 3745-15-04, all copies of the test results shall be submitted within 30 days after the test is completed.

Copies of the test results shall be sent to the Ohio EPA, Northwest District Office and the Ohio EPA, Central Office. Certification of the continuous O_2 monitoring system shall be granted upon determination by the Ohio EPA, Central Office that the system meets all requirements of ORC section 3704.03(I) and 40 CFR Part 60, Appendix B, Performance Specification 3.

* The permittee may use 40 CFR Part 60, Appendix B, Performance Specification 2 and Performance Specification 4 in conjunction with a fuel flow monitor as described in 40 CFR Part 75 to meet these requirements if approved by the Ohio EPA, Central Office.

(4) Compliance with the allowable emission limitations in this permit shall be determined according to the following methods:

a. Emission Limitation
3.5 ppmvd at 15% Oxygen, 27.6 lbs NOx/hr, 35.9 lbs NOx/hr, 199.1 tons NO_x per rolling 12-month period

Applicable Compliance Method
Compliance with the allowable outlet concentration and the lbs/hr emission limitations shall be demonstrated by the performance testing as described in condition f)(1) and CEM requirement as described in conditions d)(5). and f)(2). Compliance with the annual emission limitation shall be determined by the record keeping required in condition d)(2).

b. Emission Limitation
0.0066 lb PE/MMBtu heat input, 0.0091 lb PE/MMBtu heat input, 13.7 lbs PE/hr, 24.7 lbs PE/hr,103.0 tons PE per rolling 12-month period

Applicable Compliance Method
Compliance with the allowable lb/MMBtu heat input emission limitation and the lbs/hr emission limitations shall be demonstrated by the performance testing as described in condition f)(1). Compliance with the annual emission limitations shall be determined by the record keeping required in condition d)(2).

c. Emission Limitation
0.0057 lb SO_2/MMBtu heat input, 11.9 lbs SO_2/hr, 16.1 lbs SO_2/hr, 65.8 tons SO_2 per rolling 12-month period

Applicable Compliance Method
Compliance with the allowable lb/MMBtu heat input emission limitation and the lbs/hr emission limitations shall be demonstrated by the performance testing as described in condition f)(1). Compliance with the annual emission limitations shall be determined by the record keeping required in condition d)(2).

d. Emission Limitation

3.9 lbs VOC/hr, 30.0 lbs VOC/hr,1060 tons VOC per rolling 12-month period

Applicable Compliance Method
Compliance with the lbs/hr emission limitations shall be demonstrated by the performance testing as described in condition f)(1). Compliance with the annual emission limitations shall be determined by the record keeping required in condition d)(2).

e. Emission Limitation
5.0 ppmvd CO at 15% Oxygen, 25.0 ppmvd CO at 15% Oxygen, 23.0 lbs CO/hr, 139.5 lbs CO/hr, 607.7 tons CO per rolling 12-month period

Applicable Compliance Method
Compliance with the allowable outlet concentrations and the lbs/hr emission limitations shall be demonstrated by the performance testing as described in condition f)(1) and CEM requirement as described in conditions d). and f)(2). Compliance with the annual emission limitations shall be determined by the record keeping required in condition d)(2).

f. Emission Limitation
Visible particulate emissions shall not exceed 10 percent opacity as a six-minute average.

Applicable Compliance Method
Compliance with the visible emissions limitations established by this permit shall be determined by Method 9, 40 CFR Part 60 Appendix A.

g. Emission Limitation
2.7 lbs H_2SO_4/hr, 3.7 lbs H_2SO_4/hr, 15.1 tons H_2SO_4 per rolling 12-month period

Applicable Compliance Method
Compliance with the allowable lbs/hr emission limitations shall be demonstrated by the manufacturer's guaranteed emission rate in conjunction with the sulfur content of the fuel being fired. Compliance with the annual emission limitation shall be determined by the record keeping required in condition d)(2).

h. Emission Limitation
1.23 lbs formaldehyde/hr, 1.75 lbs formaldehyde/hr, 7.2 tons formaldehyde/yr

Applicable Compliance Method
Compliance with the allowable lbs/hr emission limitations shall be demonstrated by the performance testing as described in condition f)(1). Compliance with the annual emission limitation shall be determined by the record keeping required in condition d)(2).

i. Emission Limitation
23.7 lbs ammonia/hr, 24.0 lbs ammonia/hr, 97.8 tons ammonia/yr

Applicable Compliance Method
Compliance with the allowable lbs/hr emission limitations shall be demonstrated by the performance testing as described in condition f)(1). Compliance with the

annual emission limitation shall be determined by the record keeping required in condition d)(2).

j. Emission Limitation
Start-up and shut-down emissions
67.3 tons NOx/yr
296.7 tons CO/yr
32.0 tons VOC/yr

Applicable Compliance Method
Compliance with the annual emission limitations shall be demonstrated by the record keeping required in condition d)(1).

g) Miscellaneous Requirements

(1) Prior to the installation of the continuous NO_x and CO monitoring systems, the permittee shall submit information detailing the proposed location of the sampling site in accordance with the siting requirements in 40 CFR Part 60, Appendix B, Performance Specification 6 [or as described in condition f)(1)] for approval by the Ohio EPA, Central Office.

Prior to the installation of the continuous O_2 monitoring system, the permittee shall submit information detailing the proposed location of the sampling site in accordance with the siting requirements in 40 CFR Part 60, Appendix B, Performance Specification 3 for approval by the Ohio EPA, Central Office.

(2) Within 180 days of the effective date of this permit, the permittee shall develop a written quality assurance/quality control plan for the continuous NO_x, CO, and O_2 monitoring systems designed to ensure continuous valid and representative readings of NO_x, CO, and O_2 emissions in the units established in this permit. The plan shall follow the requirements of 40 CFR Part 60 Appendix F or as approved by the Ohio EPA, Central office. The quality assurance/quality control plan and a logbook dedicated to the continuous NO_x, CO, and O_2 monitoring systems must be kept on site and available for inspection during regular office hours.

(3) This emissions unit, as described in this Permit to Install (PTI), is subject to the applicable provisions of the NSPS, as promulgated by the United States Environmental Protection Agency (U.S. EPA) under 40 CFR Part 60. The requirements of 40 CFR Part 60 are delegated to the Ohio EPA and are federally enforceable.

(4) This emissions unit as described in this PTI is subject to the applicable provisions of the Prevention of Significant Deterioration (PSD) regulations as promulgated by the U. S. EPA. The authority to apply and enforce the PSD regulations has been delegated to the Ohio EPA.

In accordance with 40 CFR 124.15, 124.19 and 124.20, the following shall apply:

a. The effective date of the permit shall be 30 days after the service of notice to any public commentors. The final decision to issue, modify or revoke and re-issue the permit, unless the service of notice is by mail, in which case the effective date of the permit shall be 33 days after the service notice; and

b. if an appeal is made to the Environmental Appeals Board of the U.S. EPA, the effective date of the permit is suspended until such time as the appeal is resolved or denied.

Appeals will be addressed to:

United States Environmental Protection Agency
Environmental Appeals Board
401 M Street, SW (MC-113do)
Washington, D.C. 21460

3. P003, cooling tower

Operations, Property and/or Equipment Description:

Cooling Tower

a) 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.

b) Applicable Emissions Limitations and/or Control Requirements

(1) The specific operations(s), property, and/or equipment that constitute each emissions unit along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from each unit shall not exceed the listed limitations, and the listed control measures shall be specified in narrative form following the table.

	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
a.	40 CFR 52.21 OAC rules 3745-31-10 through 3745-31-20	See b)(2)a.
b.	OAC rule 3745-31-05 (A)(3)	See b)(2)b. 4.0 lbs particulate emissions (PE)/hr & 17.7 tons PE/yr 0.48 lb particulate matter less than 10 microns in size (PM10)/hr & 2.1 tons PM10/yr
c.	OAC rule 3745-17-11 (B)(4)	See b)(2)c.
d.	OAC rule 3745-17-07 (A)(1)	Visible particulate emissions shall not exceed 20 percent opacity as a six-minute average, except as provided by rule.

(2) Additional Terms and Conditions

a. Per the requirements of 40 CFR 52.21, the permittee is required to perform a Best Available Control Technology (BACT) review for PE/PM_{10}. The implementation of high efficiency drift eliminators constitute BACT for this emissions unit.

b. The requirements of this rule also include compliance with the requirements of OAC rule 3745-31-10 through 20, OAC rule 3745-17-07 (A)(1), and 40 CFR Part 52.21.

c. The emissions limit based on this applicable rule is less stringent than the limit established pursuant to OAC rule 3745-31-05(A)(3).

c) Operational Restrictions

(1) The permittee shall maintain an average total dissolved solids content of 7,500 ppm or less in this emissions unit.

d) Monitoring and/or Recordkeeping Requirements

(1) The permittee shall perform the following monitoring requirements for emissions unit P003 on a monthly basis:

a. test and record the total dissolved solids content; and

b. determine the average dissolved solids content based on a rolling, 12-month average.

e) Reporting Requirements

(1) The permittee shall submit deviation reports in accordance with the Standard Terms and Conditions of this permit that identify any exceedances of the average total dissolved solids content.

f) Testing Requirements

(1) Compliance with the allowable emission limitations in this permit shall be determined according to the following methods:

a. Emission Limitation
4.0 lbs PE/hr & 17.7 tons PE/yr
0.48 lb PM10/hr & 2.1 tons PM10/yr

Applicable Compliance Method
Compliance with the lbs/hr emission limitation shall be demonstrated by applying the maximum drift loss factor 0.0005 percent to the maximum average total dissolved solids content of 7,500 ppm for the cooling water. If required, the permittee shall submit a testing proposal which will demonstrate that the maximum drift loss does not exceed 0.0005 percent. Compliance with the annual emission limitation shall be demonstrated by multiplying the hourly emission rate by 8760 hours and dividing by 2000 lbs/ton.

b. Compliance with the hourly and annual PM10 limitations are based on manufacturer's data showing PM10 is 12% of total particulate. Emission Limitation
Visible particulate emissions shall not exceed 20 percent opacity as a six-minute average, except as provided by rule

Applicable Compliance Method
Compliance with the visible emissions limitations established by this permit shall be determined by OAC rule 3745-17-03(B)(10).

g) Miscellaneous Requirements

(1) This emissions unit as described in this Permit to Install (PTI) is subject to the applicable provisions of the Prevention of Significant Deterioration (PSD) regulations as promulgated by the United States Environmental Protection Agency (U. S. EPA.). The authority to apply and enforce the PSD regulations has been delegated to the Ohio EPA.

In accordance with 40 CFR 124.15, 124.19 and 124.20, the following shall apply:

b. The effective date of the permit shall be 30 days after the service of notice to any public commentors. The final decision to issue, modify or revoke and re-issue the permit, unless the service of notice is by mail, in which case the effective date of the permit shall be 33 days after the service notice; and

c. if an appeal is made to the Environmental Appeals Board of the U.S. EPA, the effective date of the permit is suspended until such time as the appeal is resolved or denied.

Appeals will be addressed to:

United States Environmental Protection Agency
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401 M Street, SW (MC-113do)
Washington, D.C. 21460