Ohio Environmental Protection Agency

John R. Kasich, Governor
Mary Taylor, Lt. Governor
Craig W. Butler, Director

3/29/2016

Genevieve Damico *Via E-Mail Notification*
United States Environmental Protection Agency
Mail Code: AR-18J
77 West Jackson Blvd.
Chicago, IL 60604-3507

RE: PROPOSED AIR POLLUTION TITLE V PERMIT
Facility Name: Washington Energy Facility
Facility ID: 0684000212
Permit Type: Significant Permit Modification
Permit Number: P0119626

Dear Ms. Damico:

A proposed OAC Chapter 3745-77 Title V permit for the referenced facility has been issued for review by U.S. EPA. This permit can be accessed electronically on the Division of Air Pollution Control (DAPC) Web page, www.epa.ohio.gov/dapc by clicking the "Search for Permits" link under the Permitting topic on the Programs tab. If U.S. EPA does not object to this proposed permit, the permit will be processed for issuance as a final action not less than 45 days from the date of this letter. Please contact me at (614) 644-2835 by the end of the 45 day review period if you wish to object to the proposed permit.

Sincerely,

Michael E. Hopkins, P.E.
Assistant Chief, Permitting Section, DAPC

Cc: Ohio EPA DAPC, Southeast District Office

PROPOSED

Division of Air Pollution Control
Title V Permit
for
Washington Energy Facility

Facility ID:	0684000212
Permit Number:	P0119626
Permit Type:	Significant Permit Modification
Issued:	3/29/2016
Effective:	To be entered upon final issuance
Expiration:	To be entered upon final issuance

Ohio Environmental Protection Agency

Division of Air Pollution Control
Title V Permit
for
Washington Energy Facility

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Authorization

Facility ID:	0684000212
Facility Description:	Natural gas fired combined cycle power plant.
Application Number(s):	A0054256, A0054458, A0055184
Permit Number:	P0119626
Permit Description:	Significant permit modification of Title V permit to incorporate changes in PTI P0119625 for the Chapter 31 modification of the combustion turbines and to update the insignificant emissions units with applicable requirements
Permit Type:	Significant Permit Modification
Issue Date:	3/29/2016
Effective Date:	To be entered upon final issuance
Expiration Date:	To be entered upon final issuance
Superseded Permit Number:	P0105635

This document constitutes issuance of an OAC Chapter 3745-77 Title V permit to:

Washington Energy Facility
859 Ohio 83
Beverly, OH 45715-1329

Ohio Environmental Protection Agency (EPA)District Office or local air agency responsible for processing and administering your permit:

Ohio EPA DAPC, Southeast District Office
2195 Front Street
Logan, OH 43138
(740)385-8501

The above named entity is hereby granted a Title V permit pursuant to Chapter 3745-77 of the Ohio Administrative Code. This permit and the authorization to operate the air contaminant sources (emissions units) at this facility shall expire at midnight on the expiration date shown above. You will be sent a notice approximately 18 months prior to the expiration date regarding the renewal of this permit. If you do not receive a notice, please contact the Ohio EPA DAPC, Southeast District Office. If a renewal permit is not issued prior to the expiration date, the permittee may continue to operate pursuant to OAC rule 3745-77-08(E) and in accordance with the terms of this permit beyond the expiration date, if a timely renewal application is submitted. A renewal application will be considered timely if it is submitted no earlier than 18 months and no later than 6 months prior to the expiration date.

This permit is granted subject to the conditions attached hereto.

Ohio Environmental Protection Agency

Craig W. Butler
Director

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. 24., Reporting Requirements Related to Monitoring and Record Keeping Requirements of State-Only Enforceable Permit Terms and Conditions

(2) Standard Term and Condition A. 25., Records Retention Requirements for State-Only Enforceable Permit Terms and Conditions

(3) Standard Term and Condition A. 27., Scheduled Maintenance/Malfunction Reporting For State-Only Requirements

(4) Standard Term and Condition A. 29., Additional Reporting Requirements When There Are No Deviations of Federally Enforceable Emission Limitations, Operational Restrictions, or Control Device Operating Parameter Limitations

(5) Standard Term and Condition A. 30.

(Authority for term: ORC 3704.036(A))

2. 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 (i.e., in section C. Emissions Unit Terms and Conditions of this Title V permit), 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.

(Authority for term: OAC rule 3745-77-07(A)(3)(b)(i))

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 all calibration and maintenance records and all original strip-chart recordingsfor continuous monitoring instrumentation, and copies of all reports required by this permit. Such records may be maintained in computerized form.

(Authority for term: OAC rule 3745-77-07(A)(3)(b)(ii))

c) The permittee shall submit required reports in the following manner:

(1) All reporting required in accordance with OAC rule 3745-77-07(A)(3)(c) for deviations caused by malfunctions shall be submitted in the following manner:

Any malfunction, as defined in OAC rule 3745-15-06(B)(1), shall be promptly reported to the Ohio EPA in accordance with OAC rule 3745-15-06. In addition, to fulfill the OAC rule 3745-77-07(A)(3)(c) deviation reporting requirements for malfunctions, written reports that identify each malfunction that occurred during each calendar quarter (including each malfunction reported only verbally in accordance with OAC rule 3745-15-06) shall be submitted by January 31, April 30, July 31, and October 31 of each year in accordance with Standard Term and Condition A.2.c)(2) below; and each report shall cover the previous calendar quarter. An exceedance of the visible emission limitations specified in OAC rule 3745-17-07(A)(1) that is caused by a malfunction is not a violation and does not need to be reported as a deviation if the owner or operator of the affected air contaminant source or air pollution control equipment complies with the requirements of OAC rule 3745-17-07(A)(3)(c).

In accordance with OAC rule 3745-15-06, a malfunction reportable under OAC rule 3745-15-06(B) is a deviation of the federally enforceable permit requirements. Even though verbal notifications and written reports are required for malfunctions pursuant to OAC rule 3745-15-06, the written reports required pursuant to this term must be submitted quarterly to satisfy the prompt reporting provision of OAC rule 3745-77-07(A)(3)(c).

In identifying each deviation caused by a malfunction, the permittee shall specify the emission limitation(s) (or control requirement(s)) for which the deviation occurred, describe each deviation, and provide the magnitude and duration of each deviation. For a specific malfunction, if this information has been provided in a written report that was submitted in accordance with OAC rule 3745-15-06, the permittee may simply reference that written report to identify the deviation. Nevertheless, all malfunctions, including those reported only verbally in accordance with OAC rule 3745-15-06, must be reported in writing on a quarterly basis.

Any submittedscheduled maintenancerequests, as referenced in OAC rule 3745-15-06(A)(1), that results in a deviation from a federally enforceable emission limitation (or control requirement) shall be reported in the same manner as described above for malfunctions.

(Authority for term: OAC rule 3745-77-07(A)(3)(c))

(2) Except as may otherwise be provided in the terms and conditions for a specific emissions unit (i.e., in section C. Emissions Unit Terms and Conditions of this Title V permit or, in some cases, in section B. Facility-Wide Terms and Conditions of this Title V permit), all reporting required in accordance with OAC rule 3745-77-07(A)(3)(c) for deviations of the emission limitations, operational restrictions, and control device operating parameter limitations shall be submitted in the following manner:

Written reports of (a) any deviations from federally enforceable emission limitations, operational restrictions, and control device operating parameter limitations, (b) the

probable cause of such deviations, and (c) any corrective actions or preventive measures taken, shall be submitted promptly to the Ohio EPA DAPC, Southeast District Office. Except as provided below, the written reports shall be submitted by January 31, April 30, July 31, and October 31 of each year; and each report shall cover the previous calendar quarter.

In identifying each deviation, the permittee shall specify the emission limitation(s), operational restriction(s), and/or control device operating parameter limitation(s) for which the deviation occurred, describe each deviation, and provide the estimated magnitude and duration of each deviation.

These written deviation reports shall satisfy the requirements of OAC rule 3745-77-07(A)(3)(c) pertaining to the submission of monitoring reports every six months and to the prompt reporting of all deviations. Full compliance with OAC rule 3745-77-07(A)(3)(c) requires reporting of all other deviations of the federally enforceable requirements specified in the permit as required by such rule.

If an emissions unit has a deviation reporting requirement for a specific emission limitation, operational restriction, or control device operating parameter limitation that is not on a quarterly basis (e.g., within 30 days following the end of the calendar month, or within 30 or 45 days after the exceedance occurs), that deviation reporting requirement satisfies the reporting requirements specified in this Standard Term and Condition for that specific emission limitation, operational restriction, or control device parameter limitation. Following the provisions of that non-quarterly deviation reporting requirement will also satisfy (for the deviations so reported) the requirements of OAC rule 3745-77-07(A)(3)(c) pertaining to the submission of monitoring reports every six months and to the prompt reporting of all deviations, and additional quarterly deviation reports for that specific emission limitation, operational restriction, or control device parameter limitation are not required pursuant to this Standard Term and Condition.

See A.29 below if no deviations occurred during the quarter.

(Authority for term: OAC rule 3745-77-07(A)(3)(c))

(3) All reporting required in accordance with the OAC rule 3745-77-07(A)(3)(c) for other deviations of the federally enforceable permit requirements which are not reported in accordance with Standard Term and Condition A.2)c)(2) above shall be submitted in the following manner:

Unless otherwise specified by rule, written reports that identify deviations of the following federally enforceable requirements contained in this permit; Standard Terms and Conditions: A.3, A.4, A.5, A.7.e), A.8, A.13, A.15, A.19, A.20, A.21, and A.23 of this Title V permit, as well as any deviations from the requirements in section C. Emissions Unit Terms and Conditions of this Title V permit, and any monitoring, record keeping, and reporting requirements, which are not reported in accordance with Standard Term and Condition A.2.c)(2) above shall be submitted to the Ohio EPA DAPC, Southeast District Office by January 31 and July 31 of each year; and each report shall cover the previous six calendar months. Unless otherwise specified by rule, all other deviations from federally enforceable requirements identified in this permit shall be submitted annually as part of the annual compliance certification, including deviations of federally

enforceable requirements not specifically addressed by permit or rule for the insignificant activities or emissions levels (IEU) identified in section B. Facility-Wide Terms and Conditions of this Title V permit. Annual reporting of deviations is deemed adequate to meet the deviation reporting requirements for IEUs unless otherwise specified by permit or rule.

In identifying each deviation, the permittee shall specify the federally enforceable requirement for which the deviation occurred, describe each deviation, and provide the magnitude and duration of each deviation.

These semi-annual and annual written reports shall satisfy the reporting requirements of OAC rule 3745-77-07(A)(3)(c) for any deviations from the federally enforceable requirements contained in this permit that are not reported in accordance with Standard Term and Condition A.2.c)(2) above.

If no such deviations occurred during a six-month period, the permittee shall submit a semi-annual report which states that no such deviations occurred during that period.

(Authority for term: OAC rules 3745-77-07(A)(3)(c)(i) and (ii) and OAC rule 3745-77-07(A)(13)(b))

(4) 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 (including any written malfunction reports required by OAC rule 3745-15-06 that are referenced in the deviation reports) are true, accurate, and complete." Signature by the Responsible Official may be represented by entry of the personal identification number (PIN) by the Responsible Official as part of the electronic submission process or by the scanned attestation document signed by the Responsible Official that is attached to the electronically submitted written report.

(Authority for term: OAC rule 3745-77-07(A)(3)(c)(iv))

(5) Consistent with A.2.c.1. above, reports of any required monitoring and/or record keeping information required to be submitted to Ohio EPA shall be submitted to Ohio EPA DAPC, Southeast District Office unless otherwise specified.

(Authority for term: OAC rule 3745-77-07(A)(3)(c))

3. Reporting of Any Exceedence of a Federally Enforceable Emission Limitation or Control Requirement Resulting From Scheduled Maintenance

Any scheduled maintenance of air pollution control equipment shall be performed in accordance with paragraph (A) of OAC rule 3745-15-06. Except as provided in OAC rule 3745-15-06(A)(3), any scheduled maintenance 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). Any scheduled maintenance, as defined in OAC rule 3745-15-06(A)(1), that results in a deviation from a federally enforceable emission limitation (or control requirement) shall be reported in the same manner as described for malfunctions in Standard Term and Condition A.2.c)(1) above.

(Authority for term: OAC rule 3745-77-07(A)(3)(c))

4. Risk Management Plans

If applicable, the permittee shall 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"); and, pursuant to 40 C.F.R. 68.215(a), the permittee shall submit either of the following:

a) a compliance plan for meeting the requirements of 40 C.F.R. Part 68 by the date specified in 40 C.F.R. 68.10(a) and OAC 3745-104-05(A); or

b) as part of the compliance certification submitted under 40 C.F.R. 70.6(c)(5), a certification statement that the source is in compliance with all requirements of 40 C.F.R. Part 68 and OAC Chapter 3745-104, including the registration and submission of the risk management plan.

(Authority for term: OAC rule 3745-77-07(A)(4))

5. 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.

(Authority for term: OAC rule 3745-77-07(A)(5))

6. Severability Clause

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.

(Authority for term: OAC rule 3745-77-07(A)(6))

7. General Requirements

a) 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 reissuance, or modification, or for denial of a permit renewal application.

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 permitexcept as provided pursuant to A.16 below.

c) This permit may be modified, reopened, revoked, or revoked and reissued, for cause, in accordance with A.11 below. 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, reopening 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.

f) Except as otherwise indicated below, this Title V permit, or permit modification, is effective for five years from the original effective date specified in the permit. In the event that this facility becomes eligible for non-title V permits, this permit shall cease to be enforceable when:

(1) the permittee submits an approved facility-wide potential to emit analysis supporting a claim that the facility no longer meets the definition of a "major source" as defined in OAC rule 3745-77-01(W) based on the permanent shutdown and removal of one or more emissions units identified in this permit; or

(2) the permittee no longer meets the definition of a "major source" as defined in OAC rule 3745-77-01(W) based on obtaining restrictions on the facility-wide potential(s) to emit that are federally enforceable or legally and practically enforceable ; or

(3) a combination of (1) and (2) above.

The permittee shall continue to comply with all applicable OAC Chapter 3745-31 requirements for all regulated air contaminant sources once this permit ceases to be enforceable. The permittee shall comply with any residual requirements, such as quarterly deviation reports, semi-annual deviation reports, and annual compliance certifications covering the period during which this Title V permit was enforceable. All records relating to this permit must be maintained in accordance with law.

(Authority for term: OAC rule 3745-77-01(W), OAC rule 3745-77-07(A)(3)(b)(ii), OAC rule 3745-77(A)(7))

8. 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.

(Authority for term: OAC rule 3745-77-07(A)(8))

9. Marketable Permit Programs

No revision of this permit is required under any approved economic incentive, marketable permits, emissions trading, and other similar programs or processes for changes that are provided for in this permit.

(Authority for term: OAC rule 3745-77-07(A)(9))

10. Reasonably Anticipated Operating Scenarios

The permittee is hereby authorized to make changes among operating scenarios authorized in this permit without notice to the Ohio EPA, but, contemporaneous with making a change from one operating scenario to another, the permittee must record in a log at the permitted facility the scenario under which the permittee is operating. The permit shield provided in these standard terms and conditions shall apply to all operating scenarios authorized in this permit.

(Authority for term: OAC rule 3745-77-07(A)(10))

11. Reopening for Cause

This Title V permit will be reopened prior to its expiration date under the following conditions:

a) Additional applicable requirements under the Act become applicable to one or more emissions units covered by this permit, and this permit has a remaining term of three or more years. Such a reopening shall be completed not later than eighteen (18) months after promulgation of the applicable requirement. No such reopening is required if the effective date of the requirement is later than the date on which the permit is due to expire, unless the original permit or any of its terms and conditions has been extended pursuant to paragraph (E)(1) of OAC rule 3745-77-08.

b) This permit is issued to an affected source under the acid rain program and additional requirements (including excess emissions requirements) become applicable. Upon approval by the Administrator, excess emissions offset plans shall be deemed to be incorporated into the permit, and shall not require a reopening of this permit.

c) The Director of the Ohio EPA or the Administrator of the U.S. EPA determines that the federally applicable requirements in this permit are based on a material mistake, or that inaccurate statements were made in establishing the emissions standards or other terms and conditions of this permit related to such federally applicable requirements.

d) The Administrator of the U.S. EPA or the Director of the Ohio EPA determines that this permit must be revised or revoked to assure compliance with the applicable requirements.

(Authority for term: OAC rules 3745-77-07(A)(12) and 3745-77-08(D))

12. Federal and State Enforceability

Only those terms and conditions designated in this permit as federally enforceable, that 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, the State, and citizens under the Act. All other terms and conditions of this permit shall not be federally enforceable and shall be enforceable under State law only.

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

13. Compliance Requirements

a) Any document (including reports) required to be submitted and required by a federally applicable requirement in this Title V 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.

b) 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 paragraph (E) of OAC rule 3745-77-03.

(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.

c) The permittee shall submit progress reports to the Ohio EPA DAPC, Southeast 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.

d) Compliance certifications concerning the terms and conditions contained in this permit that are federally enforceable emission limitations, standards, or work practices, shall be submitted to the Director (the Ohio EPA DAPC, Southeast District Office) and the Administrator of the U.S. EPA in the following manner and with the following content:

(1) Compliance certifications shall be submitted annually on a calendar year basis. The annual certification shall be submitted on or before April 30th of each year during the permit term.

(2) Compliance certifications shall include the following:

a. Identification of each term or condition that is the basis of the certification. The identification may include a statement by the Responsible Official that every term and condition that is federally enforceable has been reviewed, and such terms

and conditions with which there has been continuous compliance throughout the year are not separately identified.

b. The permittee's current compliance status.

c. Whether compliance was continuous or intermittentconsistent with A.13.d.2.a above.

d. The method(s) used for determining the compliance status of the source currently and over the required reporting period consistent with A.13.d.2.a above.

e. Such other facts as the Director of the Ohio EPA may require in the permit to determine the compliance status of the source.

(3) Compliance certifications shall contain such additional requirements as may be specified pursuant to sections 114(a)(3) and 504(b) of the Act.

(Authority for term: OAC rules 3745-77-07(C)(1),(2),(4) and (5) and ORC section 3704.03(L))

14. Permit Shield

a) Compliance with the terms and conditions of this permit (including terms and conditions established for alternate operating scenarios, emissions trading, and emissions averaging, but excluding terms and conditions for which the permit shield is expressly prohibited under OAC rule 3745-77-07) shall be deemed compliance with the applicable requirements identified and addressed in this permit as of the date of permit issuance.

b) This permit shield provision shall apply to any requirement identified in this permit pursuant to OAC rule 3745-77-07(F)(2), as a requirement that does not apply to the source or to one or more emissions units within the source.

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

15. Operational Flexibility

The permittee is authorized to make the changes identified in OAC rule 3745-77-07(H)(1)(a) to (H)(1)(c) within the permitted stationary source without obtaining a permit revision, if such change is not a modification under any provision of Title I of the Act [as defined in OAC rule 3745-77-01(JJ)], and does not result in an exceedance of the emissions allowed under this permit (whether expressed therein as a rate of emissions or in terms of total emissions), and the permittee provides the Administrator of the U.S. EPA and the Ohio EPA DAPC, Southeast District Office with written notification within a minimum of seven days in advance of the proposed changes, unless the change is associated with, or in response to, emergency conditions. If less than seven days notice is provided because of a need to respond more quickly to such emergency conditions, the permittee shall provide notice to the Administrator of the U.S. EPA and the Ohio EPA DAPC, Southeast District Office as soon as possible after learning of the need to make the change. The notification shall contain the items required under OAC rule 3745-77-07(H)(2)(d).

(Authority for term: OAC rules 3745-77-07(H)(1) and (2))

16. Emergencies

The permittee shall have an affirmative defense of emergency to an action brought for noncompliance with technology-based emission limitations if the conditions of OAC rule 3745-77-07(G)(3) are met. This emergency defense provision is in addition to any emergency or upset provision contained in any applicable requirement.

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

17. Off-Permit Changes

The owner or operator of a Title V source may make any change in its operations or emissions at the source that is not specifically addressed or prohibited in the Title V permit, without obtaining an amendment or modification of the permit, provided that the following conditions are met:

a) The change does not result in conditions that violate any applicable requirements or that violate any existing federally enforceable permit term or condition.

b) The permittee provides contemporaneous written notice of the change to the Director and the Administrator of the U.S. EPA, except that no such notice shall be required for changes that qualify as insignificant emissions levels or activities as defined in OAC rule 3745-77-01(U). Such written notice shall describe each such change, the date of such change, any change in emissions or pollutants emitted, and any federally applicable requirement that would apply as a result of the change.

c) The change shall not qualify for the permit shield under OAC rule 3745-77-07(F).

d) The permittee shall keep a record describing all changes made at the source that result in emissions of a regulated air pollutant subject to an applicable requirement, but not otherwise regulated under the permit, and the emissions resulting from those changes.

e) The change is not subject to any applicable requirement under Title IV of the Act or is not a modification under any provision of Title I of the Act.

Paragraph (I) of rule 3745-77-07 of the Administrative Code applies only to modification or amendment of the permittee's Title V permit. The change made may require a permit-to-install under Chapter 3745-31 of the Administrative Code if the change constitutes a modification as defined in that Chapter. Nothing in paragraph (I) of rule 3745-77-07 of the Administrative Code shall affect any applicable obligation under Chapter 3745-31 of the Administrative Code.

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

18. Compliance Method Requirements

Nothing in this permit shall alter or affect the ability of any person to establish compliance with, or a violation of, any applicable requirement through the use of credible evidence to the extent authorized by law. Nothing in this permit shall be construed to waive any defenses otherwise available to the permittee, including but not limited to, any challenge to the Credible Evidence Rule (see 62 Federal Register 8314, Feb. 24, 1997), in the context of any future proceeding.

(This term is provided for informational purposes only.)

19. Insignificant Activities or Emissions Levels

Each IEU that is subject to one or more applicable requirements shall comply with those applicable requirements.

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

20. Permit to Install Requirement

Prior to the "installation" or "modification" of any "air contaminant source," as those terms are defined in OAC rule 3745-31-01, a permit to install must be obtained from the Ohio EPA pursuant to OAC Chapter 3745-31.

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

21. 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.

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

22. Permanent Shutdown of an Emissions Unit

The permittee may notify Ohio EPA of any emissions unit that is permanently shut down by submitting a certification from the Responsible 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 Responsible Official that the emissions unit was permanently shut down.

After the date on which an emissions unit is permanently shut down (i.e., that 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 and therefore ceases to meet the definition of an "emissions unit" as defined in OAC rule 3745-77-01(O)), rendering existing permit terms and conditions irrelevant, the permittee shall not be required, after the date of the certification and submission to Ohio EPA, to meet any Title V permit requirements applicable to that emissions unit, except for any residual requirements, such as the quarterly deviation reports, semi-annual deviation reports and annual compliance certification covering the period during which the emissions unit last operated. All records relating to the shutdown emissions unit, generated while the emissions unit was in operation, must be maintained in accordance with law.

Unless otherwise exempted, noemissions unit identified in this permit that has beencertified by the Responsible Official as being permanently shut down may resume operation without first applying for and obtaining a permit to install pursuant to OAC Chapter 3745-31.

(Authority for term: OAC rule 3745-77-01)

23. Title VI Provisions

If applicable, the permittee shall comply with the standards for recycling and reducing emissions of ozone depleting substances pursuant to 40 CFR Part 82, Subpart F, except as provided for motor vehicle air conditioners in Subpart B of 40 CFR Part 82:

a) Persons operating appliances for maintenance, service, repair, or disposal must comply with the required practices specified in 40 CFR 82.156.

b) Equipment used during the maintenance, service, repair, or disposal of appliances must comply with the standards for recycling and recovery equipment specified in 40 CFR 82.158.

c) Persons performing maintenance, service, repair, or disposal of appliances must be certified by an approved technician certification program pursuant to 40 CFR 82.161.

(Authority for term: OAC rule 3745-77-01(H)(11)))

24. Reporting Requirements Related to Monitoring and Record Keeping RequirementsUnder State Law Only

The permittee shall submit required reports in the following manner:

a) Reports of any required monitoring and/or record keeping information shall be submitted to theOhio EPA DAPC, Southeast District Office.

b) Except as otherwise may be provided in the terms and conditions for a specific emissions unit, quarterly written reports of (i) any deviations (excursions) from emission limitations, operational restrictions, and control device operating parameter limitations that have been detected by the testing, monitoring, and record keeping requirements specified in this permit, (ii) the probable cause of such deviations, and (iii) any corrective actions or preventive measures which have been or will be taken, shall be submitted to the Ohio EPA DAPC, Southeast District Office. In identifying each deviation, the permittee shall specify the applicable requirement for which the deviation occurred, describe each deviation, and provide the magnitude and duration of each deviation. 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, 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.)

25. Records Retention RequirementsUnder State Law Only

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.

26. 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 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.

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

27. Scheduled Maintenance/Malfunction Reporting For State-Only Requirements

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 Ohio EPA DAPC, Southeast District Office 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).

28. Permit Transfers

Any transferee of this permit shall assume the responsibilities of the prior permit holder. The Ohio EPA DAPC, Southeast District Office must be notified in writing of any transfer of this permit.

(Authority for term: OAC rule 3745-77-01(C))

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

If no emission limitation (or control requirement), operational restriction and/or control device parameter limitation 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 by January 31, April 30, July 31, and October 31 of each year; and each report shall cover the previous calendar quarter.

The permittee is not required to submit a quarterly report which states that no deviations occurred during that quarter for the following situations:

a) where an emissions unit has deviation reporting requirements for a specific emission limitation, operational restriction, or control device parameter limitation that override the deviation reporting requirements specified in Standard Term and Condition A.2.c)(2); or

b) where an uncontrolled emissions unit has no monitoring, record keeping, or reporting requirements and the emissions unit's applicable emission limitations are established at the potential to emit; or

c) where the company's Responsible Official has certified that an emissions unit has been permanently shut down.

30. Submitting Documents Required by this Permit

All applications, notifications or reports required by terms and conditions in this permit to be submitted or "reported in writing" are to be submitted to Ohio EPA through the Ohio EPA's eBusiness Center: Air Services web service ("Air Services"). Ohio EPA will accept hard copy submittals on an as-needed basis if the permittee cannot submit the required documents through the Ohio EPA eBusiness Center. In the event ofan alternative hard copy submission in lieu of the eBusiness Center, the post-marked date or the date the document is delivered in person will be recognized as the date submitted. Electronic submission of applications, notifications, or reports required to be submitted to Ohio EPA fulfills the requirement to submit the required information to the Director, the Ohio EPA DAPC, Southeast District Office, and/or any other individual or organization specifically identified as an additional recipient identified in this permit unless otherwise specified. Consistent with OAC rule 3745-15-03, the required application, notification or report is considered to be "submitted" on the date the submission is successful using a valid electronic signature. Signature by the Responsible Official may be represented as provided through procedures established in Air Services.

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.

2. The following emissions unit contained in this permit is subject to 40 CFR Part 60, Subpart Dc: B001. The complete NSPS requirements may be accessed via the internet from the Electronic Code of Federal Regulations (e-CFR) website http:ecfr.gpoacess.gov or by contacting the appropriate Ohio EPA District Office or local air agency.

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

3. The following emissions units contained in this permit are subject to 40 CFR Part 60, Subpart KKKK: P001 and P002. The complete NSPS requirements may be accessed via the internet from the Electronic Code of Federal Regulations (e-CFR) website http:ecfr.gpoacess.gov or by contacting the appropriate Ohio EPA District Office or local air agency.

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

4. The following insignificant emissions units located at this facility are subject to one or more applicable requirements as defined in OAC rule 3745-77-01(H):

EU ID	Operations, Property and/or Equipment Description
F001	Paved roadways and parking areas (PTI P0120193)
G001	300 gallon gasoline tank and fuel Station for vehicle fleet (40 CFR Part 63, Subpart CCCCCC)
P004	275 HP John Deere JDFP-06WA firefighting water pump (PBR02911)
P005	400 HP Caterpillar 3406 electrical generator (PBR02912)
P006	25 ton lime storage silo (PTI P0120193)
P009	23,000 kW blackstart combustion turbine (PBR12006)
P010	650 kW blackstart cranking engine ((PBR12007)

   Each insignificant emissions unit at this facility must comply with all applicable state and federal regulations, as well as any emissions limitations and/or control requirements contained within a permit-to-install for that emissions unit. Insignificant emissions units listed above that are not subject to specific permit-to-install requirements are subject to one or more applicable requirements contained in the federally-approved versions of OAC Chapters 3745-17, 3745-18, and/or 3745-21, 3745-31, and/or 40 CFR Part 60 or 63.

   (Authority for term: OAC rule 3745-77-07(A)(13))

5. The permittee shall ensure that any CAIR NO_x, SO_2, or NO_x ozone season units complies with the requirements of OAC 3745-109, which includes submitting timely permit applications. The permittee shall ensure that the affected emissions units comply with those requirements as outlined in the permit application submitted as required by OAC rules 3745-109-03, 109-10 and 109-16 for the affected emissions units. The permittee shall also comply with any subsequent federally mandated programs that may replace the CAIR program affecting electric generating facilities.

   (Authority for term: OAC Chapter 3745-109 and OAC rule 3745-77-03(A)(3))

6. Clean Air Interstate Rule – OAC Chapter 3745-109.

P001 – Combined cycle unit consisting of a nominally-rated 207 MW GE 7FA natural gas-fired, dry low-NO_x (DLN) combustion turbine and a heat recovery steam generator (HRSG) equipped with natural gas-fired duct burners (supplemental firing) nominally rated at 587 MMBtu/hr controlled by selective catalytic reduction (SCR) used to generate electricity.

P002 – Combined cycle unit consisting of a nominally-rated 207 MW GE 7FA natural gas-fired, dry low-NO_x (DLN) combustion turbine and a heat recovery steam generator (HRSG) equipped with natural gas-fired duct burners (supplemental firing) nominally rated at 587 MMBtu/hr controlled by selective catalytic reduction (SCR) used to generate electricity.

Note: Ohio EPA DAPC has completed rule amendments for OAC Chapter 3745-14, specifically, OAC rule 3745-14-01 and OAC rule 3745-14-06, which facilitated the transition of the affected units from OAC Chapter 3745-14 into the federal Clean Air Interstate Rule (CAIR) program which began with the 2009 control periods. This began the process of "sunsetting" the parts of OAC Chapter 3745-14 which were no longer needed as a result of Ohio's CAIR rules (OAC Chapter 3745-109).

On April 29th, 2014, the United States Supreme Court upheld EPA's Cross –State Air Pollution Rule (CSAPR) commonly known as the "Transport Rule" and reversed the 2012 decision by the U.S. Court of Appeals for the District of Columbia invalidating the rules. At this time, CAIR remains in place and no immediate action from States or affected sources is expected. The CAIR allowances for affected units and requirements of the CAIR rule will continue pending further guidance from USEPA on implementing CAIR.

(Authority for term: OAC Chapter 3745-109 and OAC rule 3745-77-07(A)(3))

C. Emissions Unit Terms and Conditions

1. B001, Auxiliary Boiler

Operations, Property and/or Equipment Description:

30.6 MMBtu/hr natural gas fired boiler

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 operation(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 are identified below. 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) (PTI P0120259 issued 2/5/16)	Nitrogen oxides (NO_x) emissions shall not exceed 0.035 lb/MMBtu actual heat input and 1.08 lbs/hr. Sulfur dioxide (SO_2) emissions shall not exceed 0.001 lb/MMBtu actual heat input and 0.031 lb/hr. Carbon monoxide (CO) emissions shall not exceed 0.109 lb/MMBtu actual heat input and 3.34 lbs/hr. Volatile organic compounds (VOC) emissions shall not exceed 0.016 lb/MMBtu actual heat input and 0.49 lb/hr. Particulate emissions (PE) shall not exceed 0.01 lb/MMBtu actual heat input and 0.31 lb/hr. The requirements of this rule also include compliance with the requirements of OAC rules 3745-17-07(A) and 3745-31-10 through 3745-31-20. See c)(1) and c)(2) below.
b.	40 CFR 52.21 and OAC rules 3745-31-10 through 3745-31-20	NO_x emissions shall not exceed 2.3 tons per rolling, 12-month period.

	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
		SO_2 emissions shall not exceed 0.07 ton per rolling, 12-month period. PE emissions shall not exceed 0.64 ton per rolling, 12-month period. CO emissions shall not exceed 7.0 tons per rolling, 12-month period. VOC emissions shall not exceed 1.1 tons per rolling, 12-month period. See b)(2)a.
c.	OAC rule 3745-17-07(A)	Visible PE from any stack shall not exceed 20% opacity as a 6-minute average, except as provided by the rule.
d.	OAC rule 3745-17-10(B)(1)	The emissions limitation specified by this rule is less stringent than the emissions limitation established pursuant to OAC rule 3745-31-05(A).
e.	OAC rule 3745-18-06(A)	The emissions limitation specified by this rule is less stringent than the emissions limitation established pursuant to OAC rule 3745-31-05(A).
f.	40 CFR Part 60, Subpart Dc (40 CFR 60.40c-60.48c) [In accordance with 40 CFR 60.40c(a), this emissions unit is a steam generating unit for which construction, modification or reconstruction commenced after June 9, 1898 and has a maximum design heat input capacity of 29 megawatts (100 MMBtu/hr) or less, but greater than or equal to 12.9 MW (10 MMBtu/hr) subject to the emissions limitations and control measures specified in this section.]	See d)(4) and e)(5) below.
g.	40 CFR Part 60, Subpart A (40 CFR 60.1-60.19)	General Provisions

(2) Additional Terms and Conditions

a. Based on the "Prevention of Significant Deterioration" (PSD) analysis conducted to ensure the application of "Best Available Control Technology" (BACT), it has

been determined that the use of natural gas, low sulfur fuel and low NO_x burners constitutes BACT for this emissions unit. The emission limitations based on the BACT requirements are listed under 40 CFR 52.21 and OAC rules 3745-31-10 through 3745-31-20 above.

(Authority for term: PTI 06-06792 and OAC rules 3745-31-10 through 3745-31-20)

c) Operational Restrictions

(1) The permittee shall burn only pipeline quality natural gas in this emissions unit. The maximum sulfur content of the natural gas shall not exceed 0.5 grains per 100 standard cubic feet.

(Authority for term: PTI P0120259 and OAC rule 3745-77-07(A)(1))

(2) The maximum annual fuel heat input for this emissions unit shall not exceed 128,000 MMBtu, based upon a rolling, 12-month summation of heat input values.

(Authority for term: PTI P0120259 and OAC rule 3745-77-07(A)(1))

d) 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.

(Authority for term: PTI P0120259 and OAC rule 3745-77-07(C)(1))

(2) The permittee shall monitor the sulfur content and gross calorific value of the fuel being fired in this emissions unit. Fuel sampling and analysis shall be conducted according to the procedures and at the frequency specified by 40 CFR Part 75, Appendix D. Per 40 CFR Part 75, Appendix D section 2.3.1.4, the permittee has demonstrated that the gaseous fuel is pipeline natural gas. Therefore, ongoing sampling of the fuel's sulfur content is required annually and whenever the fuel supply sources change, and sampling and analysis of the fuels gross calorific value shall be sampled monthly.

(Authority for term: PTI P0120259 and OAC rule 3745-77-07(C)(1))

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

a. The monthly natural gas usage rate, in standard cubic feet;

b. monthly fuel heat input (MMBtu);

c. the rolling, 12-month summation of fuel heat input (MMBtu); and

d. the rolling, 12-month summation of the PE and the NO_x, SO_2, CO and VOC emissions, in tons.

(Authority for term: PTI P0120259 and OAC rule 3745-77-07(C)(1))

(4) The permittee shall comply with the applicable monitoring and recordkeeping requirements required under 40 CFR Part 60, Subpart Dc, including the following sections:

60.48c(g)(1), (g)(2) or (g)(3)	Record and maintain records of the amount of each fuel combusted during each operating day; or As an alternative to meeting the requirements of 60.48c(g)(1), an affected facility that combusts only natural gas, wood, fuels using fuel certification in §60.48c(f) to demonstrate compliance with the SO_2 standard, fuels not subject to an emissions standard (excluding opacity), or a mixture of these fuels may elect to record and maintain records of the amount of each fuel combusted during each calendar month; or As an alternative to meeting the requirements of 60.48c(g)(1), an affected facility where the only fuels combusted in any steam generating unit (including steam generating units not subject to NSPS Subpart Dc) at that property are natural gas, wood, distillate oil meeting the most current requirements in 60.42c to use fuel certification to demonstrate compliance with the SO_2 standard, and/or fuels, excluding coal and residual oil, not subject to an emissions standard (excluding opacity) may elect to record and maintain records of the total amount of each steam generating unit fuel delivered to that property during each calendar month.

e) Reporting Requirements

(1) Unless other arrangements have been approved by the Director, all notifications and reports shall be submitted through the Ohio EPA's eBusiness Center: Air Services online web portal.

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

(2) The permittee shall submit deviation (excursion) reports that identify each day when a fuel other than natural gas was burned in this emissions unit. Each report shall be submitted within 30 days after the deviation occurs.

(Authority for term: PTI P0120259 and OAC rule 3745-77-07(C)(1))

(3) The permittee shall submit quarterly deviation (excursion) reports that identify the following:

a. any record which shows that the sulfur content of the natural gas exceeded 0.5 grains per 100 standard cubic feet;

b. all exceedances of the rolling, 12-month fuel heat input limitation; and

c. all exceedances of the rolling, 12-month emission limitations for PE and emissions of NO_x, SO_2, CO and VOC.

The quarterly deviation reports shall be submitted in accordance with the reporting requirements of the Standard Terms and Conditions of this permit.

(Authority for term: P0120259 and OAC rule 3745-77-07(C)(1))

(4) The permittee shall submit annual reports that specify the total PE and NOx, SO_2, CO and VOC emissions from this emissions unit for the previous calendar year. The reports shall be submitted by April 15 of each year.This reporting requirement may be satisfied by including and identifying the specific emission data for auxiliary boiler, B001, in the annual Title V Fee Emissions Report

(Authority for term: PTI P0120259 and OAC rule 3745-77-07(C)(1))

(5) The permittee shall submit notifications and reports to the appropriate Ohio EPA District office as required pursuant to 40 CFR Part 60, Subparts A and Dc, per the following sections:

60.48c(a)	Submit notification of the date of construction or reconstruction and actual startup, as provided by §60.7 of this part. This notification shall include: (1) The design heat input capacity of the affected facility and identification of fuels to be combusted in the affected facility. (2) If applicable, a copy of any federally enforceable requirement that limits the annual capacity factor for any fuel or mixture of fuels under §60.42c, or §60.43c. (3) The annual capacity factor at which the owner or operator anticipates operating the affected facility based on all fuels fired and based on each individual fuel fired. (4) Notification if an emerging technology will be used for controlling SO2 emissions. The Administrator will examine the description of the control device and will determine whether the technology qualifies as an emerging technology. In making this determination, the Administrator may require the owner or operator of the

	affected facility to submit additional information concerning the control device. The affected facility is subject to the provisions of §60.42c(a) or (b)(1), unless and until this determination is made by the Administrator.

f) Testing Requirements

(1) Compliance with the Emissions Limitations and/or Control Requirements specified in section b) of these terms and conditions shall be determined in accordance with the following methods:

a. Emissions Limitations:

NO_x emissions shall not exceed 0.035 lb/MMBtu and 1.08 lbs/hr.

Applicable Compliance Method:

Compliance with the lb/mmBtu emission limitation may be demonstrated using the manufacturer supplied emission factor of 0.035 lb/mmBtu.

Compliance with the lbs/hr emission limitation may be demonstrated by multiplying the manufacturer supplied NO_x emission factor (0.035 lb/mmBtu) by the rated fuel heat input rate of 30.6 mmBtu/hr.

If required, the permittee shall demonstrate compliance with the lb/MMBtu and lbs/hr emission limitations through emission tests performed in accordance with 40 CFR Part 60, Appendix A, Methods 1 through 4 and 7.

b. Emissions Limitations:

SO_2emissions shall not exceed 0.001 lb/MMBtu and 0.031 lb/hr.

Applicable Compliance Method:

Compliance with the lb/mmBtu emission limitation may be demonstrated using the manufacturer supplied emission factor of 0.001 lb/mmBtu.

Compliance with the lb/hr emission limitation may be demonstrated by multiplying the manufacturer supplied SO_2 emission factor (0.001 lb/mmBtu) by the rated heat input rate (30.6 mmBtu/hr).

If required, the permittee shall demonstrate compliance with the lb/MMBtu and lb/hr emission limitations through emission tests performed in accordance with 40 CFR Part 60, Appendix A, Methods 1 through 4 and 6.

c. Emissions Limitations:

CO shall not exceed 0.109 lb/MMBtu and 3.34 lbs/hr.

Applicable Compliance Method:

Compliance with the lb/mmBtu emission limitation may be demonstrated using the manufacturer supplied emission factor of 0.109 lb/mmBtu.

Compliance with the lbs/hr emission limitation may be demonstrated by multiplying the manufacturer supplied CO emission factor (0.109 lb/mmBtu) by the rated heat input rate (30.6 mmBtu/hr).

If required, the permittee shall demonstrate compliance with the lb/MMBtu and lbs/hr emission limitations through emission tests performed in accordance with 40 CFR Part 60, Appendix A, Methods 1 through 4 and 10.

d. Emissions Limitations:

VOC shall not exceed 0.016 lb/MMBtu and 0.49 lb/hr.

Applicable Compliance Method:

Compliance with the lb/mmBtu emission limitation may be demonstrated using the manufacturer supplied emission factor of 0.016 lb/mmBtu.

Compliance with the lb/hr emission limitation may be demonstrated by multiplying the manufacturer supplied VOC emission factor (0.016 lb/mmBtu) by the rated heat input rate (30.6 mmBtu/hr).

If required, the permittee shall demonstrate compliance with the lb/mmBtu and lb/hr emission limitations through emission tests performed in accordance with 40 CFR Part 60, Appendix A, Methods 1 through 4 and 25.

e. Emissions Limitations:

PE emissions shall not exceed 0.01 lb/MMBtu and 0.31 lb/hr.

Applicable Compliance Method:

Compliance with the lb/mmBtu emission limitation may be demonstrated using the manufacturer supplied emission factor of 0.01 lb/mmBtu.

Compliance with the lb/hr emission limitation may be demonstrated by multiplying the manufacturer supplied PM/PM_{10} emission factor (0.01 lb/mmBtu) by the rated heat input rate (30.6 mmBtu/hr)

If required, the permittee shall demonstrate compliance with the lb/MMBtu and lb/hr emission limitations through emission tests performed in accordance with 40 CFR Part 60, Appendix A, Methods 1 through 5.

f. Emissions Limitations:

NO_x emissions shall not exceed 2.3 tons per rolling, 12-month period.
SO_2 emissions shall not exceed 0.07 ton per rolling, 12-month period.

PE shall not exceed 0.64 tons per rolling, 12-month period.
CO emissions shall not exceed 7.0 tons per rolling, 12-month period.
VOC emissions shall not exceed 1.1 tons per rolling, 12-month period.

Applicable Compliance Method:

Compliance with the rolling, 12-month emission limitations shall be demonstrated by the recordkeeping in d)(3)d.

g. Emissions Limitation:

Visible PE from any stack shall not exceed 20% opacity as a 6-minute average, except as provided by the rule.

Applicable Compliance Method:

If required, visible particulate emissions shall be determined according to USEPA Method 9.

(Authority for term: OAC rules 3745-31-05(A)(3), 3745-31-10 through 3745-20 and 3745-77-07(C)(1))

g) Miscellaneous Requirements

(1) None.

2. Emissions Unit Group - Combustion Turbines: P001, P002

EU ID	Operations, Property and/or Equipment Description
P001	Combined cycle unit consisting of a nominally-rated 207 MW GE 7FA natural gas-fired, dry low-NO_x (DLN) combustion turbine (2,262 MMBtu/hr) and a heat recovery steam generator (HRSG) equipped with natural gas-fired duct burners (supplemental firing) nominally rated at 587 MMBtu/hr controlled by selective catalytic reduction (SCR) used to generate electricity
P002	Combined cycle unit consisting of a nominally-rated 207 MW GE 7FA natural gas-fired, dry low-NO_x (DLN) combustion turbine (2,262 MMBtu/hr) and a heat recovery steam generator (HRSG) equipped with natural gas-fired duct burners (supplemental firing) nominally rated at 587 MMBtu/hr controlled by selective catalytic reduction (SCR) used to generate electricity

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) b)(1)d., d)(16) – d)(19) and e)(10)

b) Applicable Emissions Limitations and/or Control Requirements

(1) The specific operation(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 are identified below. 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 and OAC rules 3745-31-10 through 3745-31-20	**EMISSION LIMITS WITHOUT DUCT BURNER FIRING** Nitrogen oxides (NO_x) emissions shall not exceed 3.0 ppmvd at 15% oxygen (O_2) based on a 3-hour block averaging period and 25.0 lbs/hr. Particulate emissions (PE) and emissions of particulate matter with a diameter less than 10 microns (PM_{10}) shall not exceed 19.0 lbs/hr. Sulfur dioxide (SO_2) emissions shall not exceed 1.52 lbs/hr. Carbon monoxide (CO) emissions shall not exceed 8 ppmvd at 15% O_2 based on a 24-hour block averaging period and 43.0 lbs/hr.

	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
		Volatile organic compounds (VOC) emissions shall not exceed 3.0 lbs/hr. Sulfuric acid (H_2SO_4) emissions shall not exceed 0.23 lb/hr. Visible PE emissions from any stack shall not exceed 10% opacity as a 6-minute average. **EMISSION LIMITS WITH DUCT BURNER FIRING** NO_x emissions shall not exceed 3.0 ppmvd at 15% oxygen based on a 3-hour block averaging period and 31.5 lbs/hr. PE/PM_{10} emissions shall not exceed 23.4 lbs/hr. SO_2 emissions shall not exceed 1.71 lbs/hr. CO emissions shall not exceed 8 ppmvd at 15% O_2 based on a 24-hour block averaging period and 45.9 lbs/hr. VOC emissions shall not exceed 7.3 lbs/hr. H_2SO_4 emissions shall not exceed 0.26 lb/hr. Visible PE from any stack shall not exceed 10% opacity as a 6-minute average. NO_x emissions shall not exceed 157.5 tons per rolling, 12-month period, including start-up and shutdown emissions. SO_2 emissions shall not exceed 7.5 tons per rolling, 12-month period. PE/PM_{10} emissions shall not exceed

	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
		102.5 tons per rolling, 12-month period. CO emissions during steady–state operation (Mode 6) shall not exceed 201.0 tons per rolling, 12-month period (excludes start-up and shutdown emissions). CO emissions shall not exceed 453.7 tons per rolling, 12-month period, including start-up and shutdown emissions. VOC emissions shall not exceed 63.1 tons per rolling, 12-month period, including start-up and shutdown emissions. H_2SO_4 emissions shall not exceed 1.1 tons per rolling, 12-month period. See b)(2)a. and c)(1) below.
b.	ORC 3704.03(T) and OAC rule 3745-31-05(A)(3) (PTI P0119625 issued 2/4/16)	The emissions limitations for NO_x, CO, VOC and PE/PM_{10} required by this rule are equivalent to the emissions limitations for NO_x, CO, VOC and PE/PM_{10} established pursuant to OAC rules 3745-31-10 through 3745-31-20. Ammonia (NH_3) emissions shall not exceed 11.54 tons per month averaged over a twelve-month rolling period.
c.	OAC rule 3745-31-05(A)(3) June 30, 2008 (PTI P0119625 issued 2/4/16)	The emissions limitations for SO_2 and H_2SO_4 required by this rule are equivalent to the emissions limitations for SO_2 and H_2SO_4 established pursuant to OAC rules 3745-31-10 through 3745-31-20. Formaldehyde emissions shall not exceed 0.3 ton per month averaged over a twelve-month rolling period. See b)(2)b. below.
d.	OAC rule 3745-31-05(A)(3)(a)(ii) June 30, 2008 (PTI P0119625 issued 2/4/16)	The Best Available Technology (BAT) requirements under OAC rule 3745-31-05(A)(3) do not apply to the SO_2, H_2SO_4, and formaldehyde emissions from this air

	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
		contaminant source since the potential to emit of SO_2, H_2SO_4, and formaldehyde is less than 10 tons/year. See b)(2)c. below.
e.	OAC rule 3745-17-07(A)	The emissions limitation specified by this rule is less stringent than the emissions limitation established pursuant to OAC rules 3745-31-10 through 3745-31-20.
f.	OAC rules 3745-17-10 (HRSG duct burners) and 345-17-11(B)(4) (Turbine)	The PE limitations specified by these rules are less stringent than the limitations established for PE pursuant to OAC rules 3745-31-10 through 3745-31-20.
g.	OAC rule 3745-18-06(F)	Exempt pursuant to OAC rule 3745-18-06(A) since only natural gas fuel is burned in this emissions unit.
h.	40 CFR Part 75 and OAC Chapter 3745-103	See b)(2)d. below.
i.	OAC Chapter 3745-109	See Section B.3. and B.4.
j.	OAC rule 3745-110-03(E)(1)(d)(i) (Turbine)	See b)(2)e. below.
k.	OAC rule 3745-110-03(D) (HRSG duct burners)	See b)(2)f. below.
l.	40 CFR Part 60, Subpart KKKK (40 CFR 60.4300 – 60.4420) [In accordance with 40 CFR 60.4300 and 60.4305(a), this emissions unit is a stationary combustion turbine with a heat input at peak load equal to or greater than 10.7 gigajoules (10 MMBtu) per hour, based on the higher heating value of the fuel which commenced construction, modification, or reconstruction after February 18, 2005 subject to the emissions limitations/control measures specified in this section.]	NO_x emissions from new, modified or reconstructed turbines firing natural gas with heat input capacities greater than 850 MMBtu/hr shall not exceed 15 ppm at 15% O_2 or 54 ng/J of useful output (0.43 lb/MWh). [60.4320(a) and Table 1 of 40 CFR Part 60, Subpart KKKK] SO_2 emissions from the turbine must not exceed 0.90 lb/MWh of gross output, or, fuels burned in the turbine must not contain sulfur in concentrations which would result in potential sulfur emissions in excess of 0.060 lb SO_2 / MMBtu heat input. [60.4330(a)] See b)(2)g. below.
m.	40 CFR 60.1 – 60.19	General Provisions
n.	40 CFR Part 64 Compliance Assurance Monitoring	See b)(1)j. below.

(2) Additional Terms and Conditions

a. The permittee performed a Best Available Control Technology (BACT) review for NOx, SO_2, CO, PM_{10}, H_2SO_4, and VOC in the initial PTI 06-06167, issued 1/18/2001. This permit modification did not trigger PSD, so a new BACT review was not necessary. The emission limitations based on the BACT requirements are listed under 40 CFR 52.21 and OAC rules 3745-31-10 through 3745-31-20 above. The following determinations were made for each pollutant:

i. As part of the Best Available Control Technology (BACT) determination for NO_x, the permittee shall install and maintain dry low NO_x burners, and a selective catalytic reduction (SCR) system on this emissions unit. Operation of these control systems shall reduce NO_x emissions to the limitations specified in b)(1)a.

ii. As part of the BACT determination for CO, the permittee shall operate the emissions unit in accordance with good combustion practices as recommended by the manufacturer to ensure compliance with the CO limitations specified in b)(1)a.

iii. As part of the BACT determination for PM/PM_{10}, SO_2 and H_2SO_4, the permittee shall only use natural gas (as specified in c)(1)) in this emissions unit.

iv. As part of the BACT determination for VOC, the permittee shall operate the emissions unit in accordance with good combustion practices as recommended by the manufacturer.

(Authority for term: PTI 06-06167 and OAC rules 3745-31-10 through 3745-31-20)

b. This Best Available Technology (BAT) emission limit applies until U.S. EPA approves Ohio Administrative Code (OAC) paragraph 3745-31-05(A)(3)(a)(ii) (the less than 10 tons per year BAT exemption) into the Ohio State Implementation Plan (SIP).

(Authority for term: PTI P0119625 and OAC rule 3745-31-05(A)(3))

c. These requirements apply once U.S. EPA approves OAC paragraph 3745-31-05(A)(3)(a)(ii) (the less than 10 tons per year BAT exemption) as part of the Ohio SIP.

(Authority for term: PTI P0119625 and OAC rule 3745-31-05(A)(3)(a)(ii))

d. If the permittee is subject to the requirements of OAC chapter 103 and 40 CFR Parts 72 and 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.

(Authority for term: OAC Chapter 3745-103 and OAC rule 3745-77-07(A)(1))

e. This emissions unit is subject to New Source Performance Standard (NSPS) Subpart KKKK. As provided in OAC rule 3745-110-02(A)(2), the emissions limitation for NO_x in NSPS Subpart KKKK for the combustion turbine was determined to be more stringent than the requirements for NO_x in OAC Chapter 3745-110-03(E)(1)(d)(i). Therefore, this emissions unit shall comply with NSPS Subpart KKKK for NO_x in lieu of the requirements of OAC Chapter 3745-110-03(E)(1)(d)(i) for the combustion turbine.

(Authority for term: 40 CFR Part 60, Subpart KKKK)

f. The requirements of OAC rule 3745-110-03(D) for very large boilers do not apply to the HRSG duct burners because the definition of industrial boiler does not include boilers that serve electrical generating units and cogeneration facilities.

(Authority for term: OAC Chapter 3745-110)

g. Only heat input to the combustion turbine should be included when determining whether or not NSPS Subpart KKKK is applicable to your turbine. Any additional heat input to associated heat recovery steam generators (HRSG) or duct burners should not be included when determining your peak heat input. However, this subpart does apply to emissions from any associated HRSG and duct burners.

(Authority for term: 40 CFR Part 60, Subpart KKKK)

h. The permittee shall maintain a written quality assurance/quality control plan for the continuous NO_x monitoring system (including the associated continuous CO_2 or O_2 monitoring system), designed to ensure continuous valid and representative readings of NO_x (and CO_2 or O_2) emissions in units of the applicable standard(s). The fuel flow monitor/meter shall be maintained as required in Part 75, Appendix D. Except as allowed below, the plan shall follow the requirements of 40 CFR Part 60, Appendix F and 40 CFR Part 75, Appendix B. The quality assurance/quality control plan and a logbook dedicated to the continuous NO_x monitoring system (including the associated continuous CO_2 or O_2 monitoring system) must be kept on site and available for inspection during regular office hours.

The plan shall include the requirement to conduct relative accuracy test audits for the continuous NO_x monitoring system (including the associated continuous CO_2 or O_2 monitoring system) in accordance with the frequencies required pursuant to 40 CFR Part 60 and 40 CFR Part 75; or may follow relative accuracy test audit frequency requirements for monitoring systems subject to 40 CFR 75, Appendix B, in lieu of frequencies required in 40 CFR Part 60. In either case, results shall

be recorded and reported in units of the applicable standard(s) in accordance with 40 CFR Part 60.

The plan shall include the requirement to conduct quarterly cylinder gas audits or relative accuracy audits pursuant to 40 CFR Part 60, and linearity checks pursuant to 40 CFR Part 75; however, linearity checks completed pursuant to 40 CFR Part 75, Appendix B, may be substituted for the quarterly cylinder gas or relative accuracy audits required per 40 CFR Part 60.

(Authority for term: 40 CFR 60.13, 40 CFR Part 60, Appendix F and 40 CFR Part 75and OAC rule 3745-77-07(C)(1))

i. The permittee shall maintain a written quality assurance/quality control plan for the continuous CO monitoring system (including the associated continuous CO_2 or O_2 monitoring system), designed to ensure continuous valid and representative readings of CO and CO_2 or O_2 emissions in units of the applicable standard(s). The fuel flow monitor/meter shall be maintained as required in Part 75, Appendix D. Except as allowed below, the plan shall follow the requirements of 40 CFR Part 60, Appendix F. The quality assurance/quality control plan and a logbook dedicated to the continuous CO monitoring system (including the associated continuous CO_2 or O_2 monitoring system) must be kept on site and available for inspection during regular office hours.

The plan shall include the requirement to conduct relative accuracy test audits for the continuous CO monitoring system (including the associated continuous CO_2 or O_2 monitoring system) in accordance with the frequencies required for monitoring systems subject to 40 CFR 60, or may follow relative accuracy test audit frequency requirements for monitoring systems subject to 40 CFR 75, Appendix B. In either case, results shall be recorded and reported in units of the applicable standard(s) in accordance with 40 CFR Part 60.

The plan shall include the requirement to conduct quarterly cylinder gas audits or relative accuracy audits as required in 40 CFR Part 60; however, the quarterly cylinder gas audit and relative accuracy audit frequency requirements may be adjusted to coincide with linearity checks completed for continuous emissions monitoring systems subject to 40 CFR Part 75, Appendix B requirements.

(Authority for term: 40 CFR 60.13, 40 CFR Part 60, Appendix F and OAC rule 3745-77-07(C)(1))

j. The permittee is exempt from the compliance assurance monitoring (CAM) plan requirements in 40 CFR Part 64 for the combustion turbines pursuant to the exemption in 40 CFR 64.2(b)(1)(vi) because the required NO_x CEMS is a continuous compliance determination method as defined in 40 CFR 64.1.

(Authority for term: 40 CFR Part 64)

c) Operational Restrictions

(1) The permittee shall burn only pipeline quality natural gas with a maximum sulfur content not exceed 0.5 grains per 100 standard cubic feet in this emissions unit.

(Authority for term: PTI P0119625 and OAC rule 3745-77-07(A)(1))

(2) Startup shall be defined as the period between when the combustion turbine is initially started until the combustion turbine achieves combustion operational Mode 6. Shutdown shall be defined as the period beginning when the combustion turbine leaves operational Mode 6 and ending when combustion has ceased. Mode 6 is defined by the manufacturer as the low emissions mode during which all 6 of the burner nozzles are in use, burning a lean premixed gas for steady-state operation (i.e., in compliance with the NO_x and CO lbs/hr emission limitations listed in b)(1) above). The continuous emission monitoring system will indicate and record the combustion turbine operational mode, including when the emissions unit is shut down and when operating in start-up and shutdown modes. This system will also be used to demonstrate compliance with the NO_x and CO emissions limitations during steady-state operation (Mode 6) and startups/shutdowns.

Startups shall not exceed 250 minutes in duration and shutdowns shall not exceed 120 minutes in duration. The total of all start-ups and shutdowns shall be limited to 260 cycles (each cycle consists of one start-up and one shutdown) per year.

Each startup and shutdown shall be limited to the following:

Pollutant	*Maximum Emission Rate (lbs/hr per turbine)*
NO_x	400
CO	1,658
VOC	94

Compliance with the above CO and NO_xlbs/hr startup and shutdown emission limitations shall be demonstrated using the continuous emissions monitoring system based on a 1-hour block average. Compliance with the VOC lbs/hr startup and shutdown emission limitation shall be demonstrated through the record keeping requirements specified in d)(1) of this permit.

(Authority for term: PTI P0119625 and OAC rule 3745-77-07(A)(1))

(3) Except during periods of startup, the SCR system for this emissions unit shall be in operation at all times, including during the shutdown of the unit.

(Authority for term: PTI P0119625 and OAC rule 3745-77-07(A)(1))

(4) In accordance with good engineering practices, the SCR unit shall be operated and maintained in accordance with the manufacturer's recommendations, with any modifications deemed necessary by the permittee. The permittee shall maintain on site a copy of the operation and maintenance manual, as provided by the manufacturer.

(Authority for term: PTI P0119625 and OAC rule 3745-77-07(A)(1))

(5) The permittee shall comply with the applicable restrictions required under 40 CFR Part 60, Subpart KKKK, including the following:

60.4333(a)	Operate and maintain your stationary combustion turbine, air pollution control equipment, and monitoring equipment in a manner consistent with good air pollution control practices for minimizing emissions at all times including during startup, shutdown, and malfunction.

d) Monitoring and/or Recordkeeping Requirements

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

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

b. the hours of operation of the combustion turbine;

c. the hours of operation of the duct burners;

d. the number of start-ups, and the duration, in minutes, of each start-up;

e. the number of shutdowns, and the duration, in minutes, of each shutdown;

f. the total number of start-up/shutdown cycles;

g. the NO_x emissions, in tons, for each start-up/shutdown cycle based on the data collected and maintained in the DAHS, including data generated pursuant to the approved data substitution protocol;

h. The CO emissions, in tons, for each start-up/shutdown cycle based on the data collected and maintained in the DAHS, including data generated pursuant to the approved data substitution protocol;

i. the VOC emissions, in tons, for each start-up/shutdown cycle, based on the emission factor of 94 pounds per hour;

j. the total NO_x emissions during steady-state operation (Mode 6), in tons;

k. the total CO emissions during steady-state operation (Mode 6), in tons;

l. the total CO emissions, in tons, including start-up/shutdown emissions;

m. the total VOC emissions, in tons, including start-up/shutdown emissions;

n. the total SO_2, PM/PM_{10}, NH_3, formaldehyde, and H_2SO_4 emissions, in pounds;

o. the total NH_3 and formaldehyde emissions, in tons;

p. the rolling, 12-month summation of the NO_x emissions, in tons, including start-up/shutdown emissions;

q. the rolling, 12-month summation of the steady-state (Mode 6) CO, in tons;

r. the rolling, 12-month summation of the total CO emissions, in tons, including start-up/shutdown emissions;

s. the rolling, 12-month summation of the VOC emissions, in tons, including start-up/shutdown emissions; and

t. the rolling, 12-month summation of the SO_2, PM/PM_{10}, and H_2SO_4 emissions, in tons.

This emissions unit has been in operation for more than 12 months and, as such, the permittee has existing records to generate the rolling, 12-month summation of the emissions upon issuance of this permit.

(Authority for term: OAC rules 3745-31-10 through 3745-31-20 and OAC rule 3745-77-07(C)(1))

(2) For a period of five years following resumption of regular operations after the change authorized by this permit, or for a period of ten years following resumption of regular operations after the change authorized by this permit if the NSR project increases the design capacity or potential to emit of that regulated NSR pollutant at such emissions unit, the permittee shall calculate and maintain a record of annual emissions, in tons per year on a calendar year basis, for EUs P001 and P002 combined. The purpose of this record is to demonstrate that actual emissions from these emissions units, combined, have not exceeded the baseline actual emissions, as defined in OAC rule 3745-31-01(O) plus the demand growth exclusion, as defined in OAC rule 3745-31-01(GGGGG)(3), by the significance levels, as defined in OAC rule 3745-31-01(VVVVV) as effective 5/25/14. The following are the baseline actual emissions and the demand growth exclusions for EUs P001 and P002, combined, per the permittee's application:

Pollutant	Baseline Actual Emissions	Demand Growth Exclusion
NO_x	166.30	189.12
SO_2	7.88	11.42
PM	22.88	18.94
PM_{10}	18.82	23.00
CO	37.00	93.10

VOC	115.00	14.22

(Authority for term: OAC rules 3745-31-10 through 3745-31-20 and 3745-77-07(C)(1))

(3) The permittee shall maintain on site the document(s) of certification received from the U.S. EPA or the Ohio EPA's Central Office documenting that the continuous NO_x monitoring system (including the associated continuous CO_2 or O_2 monitoring system) has been certified to meet the requirements of 40 CFR Part 60, Appendix B, Performance Specifications 2 and 3; the accuracy requirements of Performance Specification 6; and has been certified by U.S. EPA or recommended for certification by Ohio EPA to U.S. EPA under 40 CFR Part 75. The permittee shall document that the fuel flow monitor/meter meets 40 CFR 75 certification requirements prior to the performance specification test, and shall demonstrate how the pound per hour emissions of NO_x is being calculated stoichiometrically. The letter(s)/document(s) of certification under Part 60 and certification or recommendation for certification under Part 75 shall be made available to the Director (the appropriate Ohio EPA District Office or local air agency) upon request.

(Authority for term: 40 CFR 60.13, 40 CFR Part 60, Appendix B, 40 CFR Part 75and OAC rule 3745-77-07(C)(1))

(4) The permittee shall operate and maintain equipment to continuously monitor and record NO_x and CO_2 or O_2 emissions from this emissions unit in units of the applicable standard(s). The continuous monitoring and recording equipment shall comply with the requirements specified in 40 CFR Part 60 and/or Part 75.

(Authority for term: 40 CFR 60.13, 40 CFR Part 60, Appendices B & F,40 CFR Part 75and OAC rule 3745-77-07(C)(1))

(5) The permittee shall maintain records of all data obtained by the continuous NO_x monitoring system (including the associated continuous CO_2 or O_2 monitoring system) including, but not limited to:

a. emissions of NO_x in parts per million for each cycle time of the analyzer, with no resolution less than one data point per minute required;

b. emissions of NO_x in pounds per hour and in units of the applicable standard(s) in the appropriate averaging period;

c. the percent CO_2 or O_2 with each cycle time of the analyzer, with no resolution less than one data point per minute required;

d. results of quarterly cylinder gas audits or linearity checks;

e. results of daily zero/span calibration checks and the magnitude of manual calibration adjustments;

f. results of required relative accuracy test audit(s), including results in units of the applicable standard(s);

g. hours of operation of the emissions unit, continuous NO_x monitoring system (including the associated continuous CO_2 or O_2 monitoring system), and control equipment;

h. the date, time, and hours of operation of the emissions unit without the control equipment and/or the continuous NO_x monitoring system (including the associated continuous CO_2 or O_2 monitoring system);

i. the date, time, and hours of operation of the emissions unit during any malfunction of the control equipment and/or the continuous NO_x monitoring system (including the associated continuous CO_2 or O_2 monitoring system); as well as,

j. the reason (if known) and the corrective actions taken (if any) for each such event in d)(5)h. and i

All valid data points generated and recorded by the continuous emission monitoring and data acquisition and handling system shall be used in the calculation of the pollutant concentration and/or emission rate over the appropriate averaging period.

(Authority for term: 40 CFR 60.13, 40 CFR Part 60, Appendices B & F, 40 CFR Part 75and OAC rule 3745-77-07(C)(1))

(6) The permittee may operate and maintain equipment to continuously monitor and record the fuel flow rate in order to stoichiometrically calculate emissions of NO_x, in pounds per hour, as an alternative to conducting Specification 6. Fuel heat content values for each fuel burned, as applied in the stoichiometric calculations, shall also be recorded. The permittee shall maintain records of data obtained by the fuel flow monitor/meter, including the dates and results of each calibration check and the magnitude of calibration adjustments; periods of downtime and malfunction of the fuel flow monitor/meter; as well as, the reason (if known) and the corrective actions taken (if any) for each such event.

(Authority for term: 40 CFR Part 75 and OAC rule 3745-77-07(C)(1))

(7) The permittee shall maintain on site the document(s) of certification received from the U.S. EPA or the Ohio EPA's Central Office documenting that the continuous CO monitoring system (including the associated continuous CO_2 or O_2 monitoring system) has been certified to meet the requirements of 40 CFR Part 60, Appendix B, Performance Specifications 3 and 4 or 4a (as appropriate), and the accuracy requirements of Specification 6. The permittee shall document that the fuel flow monitor/meter meets 40 CFR 75 certification requirements prior to the performance specification test, and shall demonstrate how the pound per hour emissions of CO (and CO_2 or O_2) is being calculated stoichiometrically. The letter(s)/document(s) of certification under Part 60 shall be made available to the Director (the appropriate Ohio EPA District Office or local air agency) upon request.

(Authority for term: 40 CFR 60.13, 40 CFR Part 60, Appendix B, 40 CFR Part 75and OAC rule 3745-77-07(C)(1))

(8) The permittee shall operate and maintain equipment to continuously monitor and record CO and CO_2 or O_2 emissions from this emissions unit in units of the applicable standard(s). The continuous monitoring and recording equipment shall comply with the requirements specified in 40 CFR Parts 60 and/or Part 75.

(Authority for term: 40 CFR 60.13, 40 CFR Part 60, Appendices B & F and OAC rule 3745-77-07(C)(1))

(9) The permittee shall maintain records of all data obtained by the continuous CO monitoring system including, but not limited to:

a. emissions of CO in parts per million for each cycle time of the analyzer, with no resolution less than one data point per minute required;

b. emissions of CO in pounds per hour and in units of the applicable standard(s) in the appropriate averaging period;

c. the percent CO_2 or O_2 with each cycle time of the analyzer, with no resolution less than one data point per minute required;

d. results of quarterly cylinder gas audits;

e. results of daily zero/span calibration checks and the magnitude of manual calibration adjustments;

f. results of required relative accuracy test audit(s), including results in units of the applicable standard(s);

g. hours of operation of the emissions unit, continuous CO monitoring system (including the associated continuous CO_2 or O_2 monitoring system), and control equipment;

h. the date, time, and hours of operation of the emissions unit without the control equipment and/or the continuous CO monitoring system (including the associated continuous CO_2 or O_2 monitoring system);

i. the date, time, and hours of operation of the emissions unit during any malfunction of the control equipment and/or the continuous CO monitoring system (including the associated continuous CO_2 or O_2 monitoring system); as well as,

j. the reason (if known) and the corrective actions taken (if any) for each such event in d)(9)h. and i.

All valid data points generated and recorded by the continuous emission monitoring and data acquisition and handling system shall be used in the calculation of the pollutant concentration and/or emission rate over the appropriate averaging period.

(Authority for term: 40 CFR 60.13, 40 CFR Part 60, Appendices B & F and OAC rule 3745-77-07(C)(1))

(10) The permittee may operate and maintain equipment to continuously monitor and record the fuel flow rate in order to stoichiometrically calculate emissions of CO in pounds per hour, as an alternative to conducting Specification 6. Fuel heat content values for each fuel burned, as applied in the stoichiometric calculations, shall also be recorded. The permittee shall maintain records of data obtained by the fuel flow monitor/meter, including the dates and results of each calibration check and the magnitude of calibration adjustments; periods of downtime and malfunction of the fuel flow monitor/meter; as well as, the reason (if known) and the corrective actions taken (if any) for each such event.

(Authority for term: 40 CFR Part 75 and OAC rule 3745-77-07(C)(1))

(11) The permittee shall collect, record, and maintain measurements, data, records, and reports required per 40 CFR Part 75; and shall submit certification, recertification, notifications, applications, monitoring plans, petitions for alternative monitoring systems, electronic quarterly reports, and any other pertinent record and/or report to the Administrator (U.S. EPA), as required by Part 75.

(Authority for term: 40 CFR Part 75 and OAC rule 3745-77-07(C)(1))

(12) The permittee shall operate and maintain equipment to continuously monitor and record the actual fuel flow to this emissions unit when the emissions unit is in operation. Such continuous monitoring and recording equipment shall comply with the requirements specified in 40 CFR Part 75. If the fuel flow monitoring and/or recording equipment is (are) not in service when the emissions unit is in operation, the permittee shall comply with the approved data substitution protocol.

Fuel flow data that is substituted in accordance with 40 CFR Part 75, Appendix D, is not to be used when verifying compliance with the hourly NO_x and CO pounds per hour emission limits. Hours in which fuel flow is substituted should be included as NO_x and CO monitoring system downtime.

(Authority for term: 40 CFR Part 75 and OAC rule 3745-77-07(C)(1))

(13) The permittee shall monitor the sulfur content and gross caloric value of the fuel being fired in the combustion turbine and duct burners. The BACT requirements for SO_2 emissions in b)(1)(a) are based on a factor of 0.0006 lb SO_2/MMBtu, which is the default emission factor for pipeline quality natural gas in 40 CFR Part 75, Appendix D. Therefore, the permittee must document that the fuel combusted is actually pipeline natural gas using procedures as outlined in Part 75 Appendix D 2.3.1.4 to be able to utilize the 0.0006lb SO_2/MMBtu emission factor since it is more stringent than the sulfur content limit in 60.4330, after modification of each emissions unit. The permittee shall use the following information to make the required demonstration:

a. the fuel quality characteristics in a current, valid purchase contract, tariff sheet or transportation contract for the fuel, specifying that the maximum total sulfur content for natural gas is 0.5 grain of sulfur or less per 100 standard cubic feet and has potential sulfur emissions of less than 0.060 lb SO_2/MMBtu of heat input; or

b. representative fuel sampling data which show that the sulfur content of the fuel does not exceed 0.0006 lb SO_2/MMBtu of heat input. At a minimum, the amount of fuel sampling data specified in section 2.3.1.4 or 2.3.2.4 of appendix D to part 75 of this chapter is required.

Per 40 CFR Part 75, Appendix D section 2.3.1.4, the permittee has demonstrated that the gaseous fuel is pipeline natural gas. Therefore, ongoing sampling of the fuel's sulfur content is required annually and whenever the fuel supply sources change. Sampling and analysis of the fuel gross calorific value is required monthly.

(Authority for term: 40 CFR Part 75 and OAC rule 3745-77-07(C)(1))

(14) The permittee shall determine the hourly heat input rate to the combustion turbine and duct burner, in MMBtu, from the fuel flow rate as determined in d)(12) and gross calorific value as determined in d)(13). The heat input rate shall be calculated in accordance with the procedures in section 5 of 40 CFR Part 75, Appendix F.

(Authority for term: 40 CFR Part 75 and OAC rule 3745-77-07(C)(1))

(15) For each day during which the permittee burns a fuel other than natural gas with a maximum sulfur content of 0.5 grains per 100 standard cubic feet, the permittee shall maintain a record of the type and quantity of fuel burned in this emissions unit.

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

(16) The permit-to-install application for increases in emissions from emissions units P001 and P002 was evaluated based on the actual materials and the design parameters of the emissions unit's(s') exhaust system, as specified by the permittee. The "Toxic Air Contaminant Statute", ORC 3704.03(F), was applied to these emissions units for each toxic air contaminant listed in OAC rule 3745-114-01, using data from the permit application; and modeling was performed for each toxic air contaminant emitted at over one ton per year using an air dispersion model such as SCREEN3, AERMOD, or ISCST3, or other Ohio EPA approved model. The predicted 1-hour maximum ground-level concentration results from the approved air dispersion model, was compared to the Maximum Acceptable Ground-Level Concentration (MAGLC), calculated as described in the Ohio EPA guidance document entitled "Review of New Sources of Air Toxic Emissions, Option A", as follows:

a. the exposure limit, expressed as a time-weighted average concentration for a conventional 8-hour workday and a 40-hour workweek, for each toxic compound(s) emitted from the emissions unit(s), (as determined from the raw materials processed and/or coatings or other materials applied) has been documented from one of the following sources and in the following order of preference (TLV was and shall be used, if the chemical is listed):

i. threshold limit value (TLV) from the American Conference of Governmental Industrial Hygienists (ACGIH) "Threshold Limit Values for Chemical Substances and Physical Agents Biological Exposure Indices"; or

ii. STEL (short term exposure limit) or the ceiling value from the American Conference of Governmental Industrial Hygienists (ACGIH) "Threshold Limit Values for Chemical Substances and Physical Agents Biological Exposure Indices"; the STEL or ceiling value is multiplied by 0.737 to convert the 15-minute exposure limit to an equivalent 8-hour TLV.

b. The TLV is divided by ten to adjust the standard from the working population to the general public (TLV/10).

c. This standard is/was then adjusted to account for the duration of the exposure or the operating hours of the emissions unit(s), i.e., "24" hours per day and "7" days per week, from that of 8 hours per day and 5 days per week. The resulting calculation was (and shall be) used to determine the Maximum Acceptable Ground-Level Concentration (MAGLC):

TLV/10 x 8/24 x 5/7 = 4 TLV/XY = MAGLC

d. The following summarizes the results of dispersion modeling for the significant toxic contaminant emissions increase of 1 or more tons/year:

Toxic Contaminant: NH_3

TLV (mg/m3): 17.41

Maximum Hourly Emission Rate (lbs/hr): 7.16

Predicted 1-Hour Maximum Ground-Level Concentration (ug/m3): 2.22

MAGLC (ug/m3): 414.6

The permittee, has demonstrated that increases in emissions of NH_3, from emissions units P001 and P002 are calculated to be less than eighty per cent of the maximum acceptable ground level concentration (MAGLC); any new raw material or processing agent shall not be applied without evaluating each component toxic air contaminant in accordance with the "Toxic Air Contaminant Statute", ORC 3704.03(F).

(Authority for term: OAC rules 3745-114-01 and 3745-77-07(C)(1))

(17) Prior to making any physical changes to or changes in the method of operation of the emissions unit(s), that could impact the parameters or values that were used in the predicted 1-hour maximum ground-level concentration, the permittee shall re-model the change(s) to demonstrate that the MAGLC has not been exceeded. Changes that can affect the parameters/values used in determining the 1-hour maximum ground-level concentration include, but are not limited to, the following:

a. changes in the composition of the materials used or the use of new materials, that would result in the emission of a new toxic air contaminant with a lower Threshold Limit Value (TLV) than the lowest TLV previously modeled;

b. changes in the composition of the materials, or use of new materials, that would result in an increase in emissions of any toxic air contaminant listed in OAC rule 3745-114-01, that was modeled from the initial (or last) application; and

c. physical changes to the emissions unit(s) or its/their exhaust parameters (e.g., increased/ decreased exhaust flow, changes in stack height, changes in stack diameter, etc.).

If the permittee determines that the "Toxic Air Contaminant Statute" will be satisfied for the above changes, the Ohio EPA will not consider the change(s) to be a "modification" under OAC rule 3745-31-01 solely due to a non-restrictive change to a parameter or process operation, where compliance with the "Toxic Air Contaminant Statute", ORC 3704.03(F), has been documented. If the change(s) meet(s) the definition of a "modification", the permittee shall apply for and obtain a final PTI prior to the change. The Director may consider any significant departure from the operations of the emissions unit, described in the permit application, as a modification that results in greater emissions than the emissions rate modeled to determine the ground level concentration; and he/she may require the permittee to submit a permit application for the increased emissions.

(Authority for term: OAC rules 3745-114-01 and 3745-77-07(C)(1))

(18) The permittee shall collect, record, and retain the following information for each toxic evaluation conducted to determine compliance with the "Toxic Air Contaminant Statute", ORC 3704.03(F):

a. a description of the parameters/values used in each compliance demonstration and the parameters or values changed for any re-evaluation of the toxic(s) modeled (the composition of materials, new toxic contaminants emitted, change in stack/exhaust parameters, etc.);

b. the Maximum Acceptable Ground-Level Concentration (MAGLC) for each significant toxic contaminant or worst-case contaminant, calculated in accordance with the "Toxic Air Contaminant Statute", ORC 3704.03(F);

c. a copy of the computer model run(s), that established the predicted 1-hour maximum ground-level concentration that demonstrated the emissions unit(s) to be in compliance with the "Toxic Air Contaminant Statute", ORC 3704.03(F), initially and for each change that requires re-evaluation of the toxic air contaminant emissions; and

d. the documentation of the initial evaluation of compliance with the "Toxic Air Contaminant Statute", ORC 3704.03(F), and documentation of any determination that was conducted to re-evaluate compliance due to a change made to the emissions unit(s) or the materials applied.

(Authority for term: OAC rules 3745-114-01 and 3745-77-07(C)(1))

(19) The permittee shall maintain a record of any change made to a parameter or value used in the dispersion model, used to demonstrate compliance with the "Toxic Air Contaminant Statute", ORC 3704.03(F), through the predicted 1-hour maximum ground-level concentration. The record shall include the date and reason(s) for the change and if the change would increase the ground-level concentration.

(Authority for term: OAC rules 3745-114-01 and 3745-77-07(C)(1))

(20) The permittee shall comply with the applicable monitoring and recordkeeping requirements required under 40 CFR Part 60, Subpart KKKK, including the following sections:

60.4340 and 60.4345	Install, calibrate, maintain and operate a NO_x continuous emissions monitoring system that meets the requirements of 60.4345(a) through (e).
60.4350	Use data from continuous emission monitoring equipment to identify excess NO_x emissions as specified in 60.4350(a) through (f) and (h).
60.4360	Except as provided in 60.4365, monitor the total sulfur content of the fuel being fired in the turbine, except as provided in §60.4365. Determine the sulfur content of the fuel using total sulfur methods described in §60.4415. Alternatively, if the total sulfur content of the gaseous fuel during the most recent performance test was less than half the applicable limit, ASTM D4084, D4810, D5504, or D6228, or Gas Processors Association Standard 2377 (all of which are incorporated by reference, see §60.17), which measure the major sulfur compounds, may be used.
60.4365	If the fuel is demonstrated not to exceed potential sulfur emissions of 26 ng SO_2/J (0.060 lb SO_2/MMBtu) heat input for units located in continental areas, monitoring of the total sulfur content of the fuel combusted in the turbine pursuant to 60.4360 is not required if: The fuel quality characteristics in a current, valid purchase contract, tariff sheet or transportation contract for the fuel, specify that the maximum total sulfur content for natural gas use is 20 grains of sulfur or less per 100 standard cubic feet and has potential sulfur emissions of less than 26 ng SO_2/J (0.060 lb SO_2/MMBtu); or Representative fuel sampling data which show that the sulfur content of the fuel does not exceed 26 ng SO_2/J (0.060 lb SO_2/MMBtu) of heat input. At a minimum, the amount of fuel sampling data specified in section 2.3.1.4 or 2.3.2.4 of appendix D to part 75 of this chapter is required.

	Note: the total sulfur content limitation in 60.4365(a)(1) and the SO_2 emissions limit in 60.4365(a)(2) are less stringent than the requirements specified in d)(13) to meet the BACT limits for SO_2 emissions in b)(1)a.
60.4370(b) and (c)	If you elect not to demonstrate sulfur content using options in 60.4365, and the fuel is supplied without intermediate bulk storage, the sulfur content value of the gaseous fuel must be determined and recorded once per unit operating day, unless a custom schedule is approved by the administrator pursuant to 60.4370(c).

e) Reporting Requirements

(1) Unless other arrangements have been approved by the Director, all notifications and reports shall be submitted through the Ohio EPA's eBusiness Center: Air Services online web portal.

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

(2) The permittee shall submit deviation (excursion) reports that identify each day when a fuel other than natural gas with a maximum sulfur content of the natural gas of 0.5 grains per 100 standard cubic feet was burned in this emissions unit. Each report shall be submitted within 30 days after the deviation occurred.

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

(3) The permittee shall submit quarterly deviation (excursion) reports that identify the following:

a. all records which show that the start-up duration exceeded 250 minutes;

b. all records which show that the shutdown duration exceeded 120 minutes;

c. all records which show that the total number of start-up/shutdown cycles exceeded 260;

d. all exceedances of the NO_x, CO, and/or VOC start-up limitations; and

e. all exceedances of the rolling, 12-month NO_x, CO, VOC, SO_2, H_2SO_4 and/or PM/PM_{10} emission limitations.

These quarterly reports shall be submitted in accordance with the reporting requirements of the Standard Terms and Conditions of this permit.

(Authority for term: OAC rules 3745-31-10 through 3745-31-20 and 3745-77-07(C)(1))

(4) As required for an existing electric utility steam generating unit, the permittee shall submit a report to the director, within sixty days after the end of each year during which records must be generated under d)(2), of the emissions units' annual emissions during the year that preceded submission of the report.

(Authority for term: OAC rules 3745-31-10(a)(4) and 3745-77-07(C)(1))

(5) For a period of 10 years following resumption of regular operations after the change authorized by this permit, the permittee shall submit a report if the annual emissions of NO_x, SO_2, PM, PM_{10}, CO and VOC from EUs P001 and P002, combined, in tons per year on a calendar year basis, exceed the baseline actual emissions, as defined in OAC rule 3745-31-01(O) plus the demand growth exclusion, as defined in OAC rule 3745-31-01(GGGGG)(3), as documented and maintained in d)(2), by a significant amount for that pollutant, as defined in OAC rule 3745-31-01(VVVVV). The report shall contain the following:

a. The name, address and telephone number of the major stationary source;

b. The annual emissions; and

c. Any other information that the permittee wishes to include in the report (e.g., an explanation as to why the emissions differ from the preconstruction projection).

The report shall be submitted within 60 days after the end of each year during which an exceedance occurs.

(Authority for term: OAC rules 3745-31-10 through 3745-31-20 and 3745-77-07(C)(1))

(6) The permittee shall comply with the following quarterly reporting requirements for the emissions unit and its continuous NO_x monitoring system (including the associated continuous CO_2 or O_2 monitoring system):

a. Pursuant to the monitoring, record keeping, and reporting requirements for continuous monitoring systems contained in 40 CFR 60.7 and 60.13(h) and the requirements established in this permit, 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 NO_x emissions in excess of any applicable limit specified in this permit, 40 CFR Part 60, OAC Chapters 3745-14 and 3745-23, and any other applicable rules or regulations. The report shall document the date, commencement and completion times, duration, and magnitude of each exceedance, as well as the reason (if known) and the corrective actions taken (if any) for each exceedance. Excess emissions shall be reported in units of the applicable standard(s).

b. Pursuant to the monitoring, record keeping, and reporting requirements for continuous monitoring systems contained in 40 CFR Parts 60.7 and 60.13(h) and the requirements established in this permit, 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 CO_2 or O_2 monitoring system downtime and malfunction while the emissions unit was on line.

c. These quarterly reports shall be submitted by January 30, April 30, July 30, and October 30 of each year and shall include the following:

i. the facility name and address;

ii. the manufacturer and model number of the continuous NO_x and CO_2 or O_2 and other associated monitors;

iii. a description of any change in the equipment that comprises the continuous emission monitoring system (CEMS), including any change to the hardware, changes to the software that may affect CEMS readings, and/or changes in the location of the CEMS sample probe;

iv. the excess emissions report (EER)*, i.e., a summary of any exceedances during the calendar quarter, as specified above;

v. the total NO_x emissions for the calendar quarter (tons);

vi. the total operating time (hours) of the emissions unit;

vii. the total operating time of the continuous NO_x monitoring system (including the associated continuous CO_2 or O_2 monitoring system) while the emissions unit was in operation;

viii. results and date of quarterly cylinder gas audits or linearity checks;

ix. unless previously submitted, results and date of the relative accuracy test audit(s), including results in units of the applicable standard(s), (during appropriate quarter(s));

x. unless previously submitted, the results of any relative accuracy test audit showing the continuous NO_x and CO_2 or O_2 monitor out-of-control and the compliant results following any corrective actions;

xi. the date, time, and duration of any/each malfunction** of the continuous NO_x monitoring system (including the associated continuous CO_2 or O_2 monitoring system), emissions unit, and/or control equipment;

xii. the date, time, and duration of any downtime** of the continuous NO_x monitoring system (including the associated continuous CO_2 or O_2 monitoring system) and/or control equipment while the emissions unit was in operation; and

xiii. the reason (if known) and the corrective actions taken (if any) for each event in e)(6)c.xi. and xii.

Each report shall address the operations conducted and data obtained during the previous calendar quarter.

* where no excess emissions have occurred or the continuous monitoring system(s) has/have not been inoperative, repaired, or adjusted during the calendar quarter, such information shall be documented in the EER quarterly report

** each downtime and malfunction event shall be reported regardless if there is an exceedance of any applicable limit

(Authority for term: 40 CFR 60.7, 40 CFR Part 75 and OAC rule 3745-77-07(C)(1))

(7) If using the fuel flow rate to stoichiometrically calculate the pound per hour emissions of NO_x in place of Specification 6 requirements, the permittee shall submit quarterly reports, to the appropriate Ohio EPA District Office or local air agency, that document the date, time, and duration of each malfunction and/or period of downtime of the continuous fuel flow monitoring system, while the emissions unit was in operation, and the reason (if known) and the corrective actions taken (if any) for each such event. If there was no downtime or malfunction of the continuous fuel flow monitoring system during any calendar quarter, the report shall be submitted so stating it. These quarterly reports shall be submitted by January 30, April 30, July 30, and October 30 of each year.

(Authority for term: 40 CFR Part 75 and OAC rule 3745-77-07(C)(1))

(8) The permittee shall comply with the following quarterly reporting requirements for the emissions unit and its continuous CO monitoring system (including the associated continuous CO_2 or O_2 monitoring system):

a. Pursuant to the monitoring, record keeping, and reporting requirements for continuous monitoring systems contained in 40 CFR 60.7 and 60.13(h) and the requirements established in this permit, 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 CO emissions in excess of any applicable limit specified in this permit, 40 CFR Part 60, OAC Chapter 3745-21, and any other applicable rules or regulations. The report shall document the date, commencement and completion times, duration, and magnitude of each exceedance, as well as, the reason (if known) and the corrective actions taken (if any) for each exceedance. Excess emissions shall be reported in units of the applicable standard(s).

b. Pursuant to the monitoring, record keeping, and reporting requirements for continuous monitoring systems contained in 40 CFR Parts 60.7 and 60.13(h) and the requirements established in this permit, 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 CO_2 or O_2 monitoring system downtime and malfunction while the emissions unit was on line.

c. These quarterly reports shall be submitted by January 30, April 30, July 30, and October 30 of each year and shall include the following:

i. the facility name and address;

ii. the manufacturer and model number of the continuous CO and CO_2 or O_2 and other associated monitors;

iii. a description of any change in the equipment that comprises the continuous emission monitoring system (CEMS), including any change to the hardware, changes to the software that may affect CEMS readings, and/or changes in the location of the CEMS sample probe;

iv. the excess emissions report (EER)*, i.e., a summary of any exceedances during the calendar quarter, as specified above;

v. the total CO emissions for the calendar quarter (tons);

vi. the total operating time (hours) of the emissions unit;

vii. the total operating time of the continuous CO monitoring system (including the associated continuous CO_2 or O_2 monitoring system) while the emissions unit was in operation;

viii. results and dates of quarterly cylinder gas audits;

ix. unless previously submitted, results and dates of the relative accuracy test audit(s), including results in units of the applicable standard(s), (during appropriate quarter(s));

x. unless previously submitted, the results of any relative accuracy test audit showing the continuous CO and CO_2 or O_2 monitor out-of-control and the compliant results following any corrective actions;

xi. the date, time, and duration of any/each malfunction** of the continuous CO monitoring system (including the associated continuous CO_2 or O_2 monitoring system), and/or emissions unit;

xii. the date, time, and duration of any downtime** of the continuous CO monitoring system (including the associated continuous CO_2 or O_2 monitoring system) while the emissions unit was in operation; and

xiii. the reason (if known) and the corrective actions taken (if any) for each event in e)(6)c.xi. and xii.

Each report shall address the operations conducted and data obtained during the previous calendar quarter.

* where no excess emissions have occurred or the continuous monitoring system(s) has/have not been inoperative, repaired, or adjusted during the calendar quarter, such information shall be documented in the EER quarterly report

** each downtime and malfunction event shall be reported regardless of whether there is an exceedance of any applicable limit

(Authority for term: 40 CFR 60.7, 40 CFR Part 75 and OAC rule 3745-77-07(C)(1))

(9) If using the fuel flow rate to stoichiometrically calculate the pound per hour emissions of CO, in place of Specification 6 requirements, the permittee shall submit quarterly reports, to the appropriate Ohio EPA District Office or local air agency, that document the date, time, and duration of each malfunction and/or period of downtime of the continuous fuel flow monitoring system, while the emissions unit was in operation, and the reason (if known) and the corrective actions taken (if any) for each such event. If there was no downtime or malfunction of the continuous fuel flow monitoring system during any calendar quarter, the report shall be submitted so stating it. These quarterly reports shall be submitted by January 30, April 30, July 30, and October 30 of each year.

(Authority for term: 40 CFR Part 75 and OAC rule 3745-77-07(C)(1))

(10) The permittee shall submit annual reports that include any changes to any parameter or value used in the dispersion model used to demonstrate compliance with the "Toxic Air Contaminate Statute", ORC 3704.03(F), through the predicted 1 hour maximum concentration. The report should include:

a. the original model input;

b. the updated model input;

c. the reason for the change(s) to the input parameter(s); and

d. a summary of the results of the updated modeling, including the input changes; and

e. a statement that the model results indicate that the 1-hour maximum ground-level concentration is less than 80% of the MAGLC.

If no changes to the emissions, emissions unit(s), or the exhaust stack have been made during the reporting period, then the report shall include a statement to that effect.

(Authority for term: OAC rules 3745-114-01 and 3745-77-07(C)(1))

(11) The permittee shall submit notifications and reports to the appropriate Ohio EPA District office as required pursuant to 40 CFR Part 60, Subparts A and KKKK, per the following sections:

60.7(a)	Submit a written notification that contains the information in 60.7(a)(1)-(7) as applicable by the specified submittal deadlines.
60.7(b)	Maintain records of the occurrence and duration of any startup, shutdown, or malfunction in the operation of an affected facility; any malfunction of the air pollution control equipment; or any periods during which a continuous monitoring system or monitoring device is inoperative.
60.7(c) and (d), 60.4375(a) and 60.4395	Submit semi-annual reports of excess emissions and monitor downtime, in accordance with §60.7(c), for each affected unit required to continuously monitor parameters or emissions, or to periodically determine the fuel sulfur content under this subpart. The summary must be submitted to the Ohio EPA Southeast District Office within 30 days following the end of each 6-month period containing the information and in the format specified in 60.7(d).
60.4380(b)	For turbines using continuous emission monitoring for NO_x, periods of excess emissions and monitor downtime are defined in 60.4380(b)(1)-(3).
60.4385	If you choose the option to monitor the sulfur content of the fuel, excess emissions and monitoring downtime are defined in 60.4385.

f) Testing Requirements

(1) Compliance with the Emissions Limitations and/or Control Requirements specified in section b) of these terms and conditions shall be determined in accordance with the following methods:

a. Emissions Limitations:

NO_x emissions without duct burner firing shall not exceed 3.0 ppmvd at 15% O_2 based on a 3-hour block averaging period and 25.0 lbs/hr.

NO_x emissions with duct burner firing shall not exceed 3.0 ppmvd at 15% O_2 based on a 3-hour block averaging period and 31.5 lbs/hr.

NO_x emissions from new, modified or reconstructed turbines firing natural gas with heat input capacities greater than 850 MMBtu/hr shall not exceed 15 ppm at 15% O_2 calculated on a 30-day rolling average or 54 ng/J of useful output (0.43 lb/MWh).

NO_x emissions shall not exceed 157.5 tons per rolling, 12-month period, including start-up and shutdown emissions.

Applicable Compliance Method:

Initial compliance with the allowable outlet concentration and the lbs/hr emissions limitations shall be demonstrated through emissions testing performed as described in f)(2) below.

Ongoing compliance with the short-term NO_x emissions limitations shall be demonstrated through the data collected as required in the Monitoring and Recordkeeping section of this permit; and through demonstration of compliance with the quality assurance/quality control plan, which shall meet the testing and recertification requirements of 40 CFR Part 60 and 40 CFR Part 75.

Ongoing compliance with the associated CO_2 or O_2 monitoring requirements contained in this permit, 40 CFR Parts 60 and 75, and any other applicable standard(s) shall be demonstrated through the data collected as required in the Monitoring and Record keeping section of this permit; and demonstration of compliance with the quality assurance/quality control plan, which shall meet all of the testing and recertification requirements of 40 CFR Part 60 and 40 CFR Part 75.

Compliance with the rolling, 12-month NO_x emissions limitation shall be demonstrate by the recordkeeping requirement in d)(1)p.

b. Emissions Limitations:

PE/PM_{10} emissions without duct burner firing shall not exceed 19.0 lbs/hr.

PE/PM_{10} emissions with duct burner firing shall not exceed 23.4 lbs/hr.

PE/PM_{10} emissions shall not exceed 102.5 tons per rolling, 12-month period.

Applicable Compliance Method:

Compliance with the short-term PE/PM_{10} emissions limitations shall be demonstrated by the testing requirements in f)(2).

Compliance with the rolling, 12-month PE/PM_{10} emissions limitation shall be demonstrated by the recordkeeping requirement in d)(1)t.

c. Emissions Limitations:

SO_2 emissions without duct burner firing shall not exceed 1.52 lbs/hr.

SO_2 emissions with duct burner firing shall not exceed 1.71 lbs/hr.

SO_2 emissions from the turbine must not exceed 0.90 lb/MWh of gross output, or, fuels burned in the turbine must not contain sulfur in concentrations which would result in potential sulfur emissions in excess of 0.060 lb SO_2MMBtu heat input.

SO_2 emissions shall not exceed 7.5 tons per rolling, 12-month period.

Applicable Compliance Methods:

Compliance with the short-term SO_2 emissions limitations shall be demonstrated by the testing requirements in f)(2).

Compliance with the rolling, 12-month SO_2 emissions limitation shall be demonstrated by the recordkeeping requirement in d)(1)t.

d. Emissions Limitations:

CO emissions without duct burner firing shall not exceed 8 ppmvd at 15% O_2 based on a 24-hour block averaging period and 43.0 lbs/hr.

CO emissions with duct burner firing shall not exceed 8 ppmvd at 15% O_2 based on a 24-hour block averaging period and 45.9 lbs/hr.

CO emissions shall not exceed 201.0 tons per rolling, 12-month period during steady-state (Mode 6) operation (excludes start-up and shutdown emissions).

CO emissions shall not exceed 453.7 tons per rolling, 12-month period, including start-up and shutdown emissions.

Applicable Compliance Method:

Initial compliance with the allowable outlet concentration and the lbs/hr emissions limitations shall be demonstrated through emissions testing performed as described in f)(2) below.

Ongoing compliance with the short-term CO emission limitations shall be demonstrated through the data collected as required in the Monitoring and Recordkeeping section of this permit; and through demonstration of compliance with the quality assurance/quality control plan, which shall meet the requirements of 40 CFR Part 60.

Ongoing compliance with these emission limitations during Mode 6 operation, as well as the annual emission limitations, including startup and shutdown emissions, shall be demonstrated based upon the CO and O_2 CEMS and the record keeping requirements specified in this permit.

Compliance with the rolling, 12-month CO emissions limitation shall be demonstrate by the recordkeeping requirement in d)(1)q. for steady-state (Mode 6) operation and d)(1)r. including start-up and shutdown emissions.

e. Emissions Limitations:

VOC emissions without duct burner firing shall not exceed 3.0 lbs/hr.

VOC emissions with duct burner firing shall not exceed 7.3 lbs/hr.

VOC emissions shall not exceed 63.1 tons per rolling, 12-month period, including startup/ shutdown emissions.

Applicable Compliance Method:

Compliance with the short-term VOC emissions limitations shall be demonstrated by the testing requirements in f)(2).

Compliance with the rolling, 12-month VOC emissions limitation shall be demonstrated by the recordkeeping requirement in d)(1)s.

f. Emissions Limitations:

H_2SO_4 emissions without duct burner firing shall not exceed 0.23 lb/hr.

H_2SO_4 emissions with duct burner firing shall not exceed 0.26 lb/hr.

H_2SO_4 emissions shall not exceed 1.1 tons per rolling, 12-month period.

Applicable Compliance Method:

Compliance with the lbs/hr emission limitation may be demonstrated by multiplying the emission factor of 0.00009 lb/mmBtu (extrapolated from the SO_2 emissions factor) by the maximum heat input.

If required, H_2SO_4 emissions shall be determined according to test Methods 1 - 4, and 8 as set forth in the "Appendix on Test Methods" in 40 CFR, Part 60 "Standards of Performance for New Stationary Sources". Alternative U.S. EPA-approved test methods may be used with prior approval from Ohio EPA, Southeast District Office.

Compliance with the rolling, 12-month H_2SO_4 emissions limitation shall be demonstrated by the recordkeeping requirement in d)(1)t.

g. Emissions Limitation:

Visible PE from any stack shall not exceed 10% opacity as a 6-minute average.

Applicable Compliance Method:

Compliance with the visible PE limitation shall be demonstrated by the testing requirements in f)(2).

h. Emissions Limitation:

NH_3 emissions shall not exceed 11.54 tons per month averaged over a twelve-month rolling period.

Applicable Compliance Method:

Compliance with the tons per month NH_3 emissions limitation shall be demonstrated by the recordkeeping requirement in d)(1)o.

i. Emissions Limitation:

Formaldehyde emissions shall not exceed 0.3 ton per month averaged over a twelve-month rolling period.

Applicable Compliance Method:

Compliance with the tons per month formaldehyde emissions limitation shall be demonstrated by the recordkeeping requirement in d)(1)o.

j. Emissions Limitations:

The permittee shall burn only pipeline quality natural gas with a maximum sulfur content not exceed 0.5 grains per 100 standard cubic feet in this emissions unit.

Applicable Compliance Method:

Compliance with the fuel sulfur content limitations shall be demonstrated by the testing requirements in f)(2) and the recordkeeping requirements in d)(13).

(Authority for term: 40 CFR Subpart KKKK, 40 CFR 60.13, 40 CFR Part 60, Appendices B & F, 40 CFR Part 75 and OAC rules 3745-31-05(A)(3), 3745-31-10 through 3745-31-20 and 3745-77-07(C)(1))

(2) The permittee shall conduct, or have conducted, emission testing for this emission unit in accordance with 40 CFR 60.8, 60.4405 and 60.4415 and the following requirements:

a. The emission testing shall be conducted within 60 days after achieving the maximum production rate at which the modified facility will be operated, but not later than 180 days after initial startup of the modified unit. Subsequent SO_2 performance tests shall be conducted on an annual basis (no more than 14 calendar months following the previous performance test) using one of the three methodologies in 60.4415(a).

b. The emission testing shall be conducted to demonstrate initial compliance with the NO_x and CO outlet concentrations, the lb/hr emissions limitations for NO_x, CO, VOC, and PE, visible emissions and the fuel sulfur content after modification.

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

NO_x	Method 7Eor 20 of 40 CFR Part 60, Appendix A
PE	Methods 1-5 of 40 CFR Part 60, Appendix A
CO	Methods 1-4 and 10 of 40 CFR Part 60, Appendix A
VOC	Methods 1-4 and 25A of 40 CFR Part 60, Appendix A
Visible emissions	Method 9 of 40 CFR Part 60, Appendix A
Fuel sulfur content	40 CFR 60.4415(a)

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

d. The testing shall be conducted while the emission unit is operating at or near its maximum capacity with and without duct burner firing, unless otherwise specified or approved by Ohio EPA, Southeast District Office.

e. Not later than 30 days prior to the proposed test date(s), the permittee shall submit an "Intent to Test" notification to the Ohio EPA, Southeast District Office. The "Intent to Test" notification shall describe in detail the proposed test methods and procedures, the emission unit operating parameters, the times(s) and date(s) of the test(s), and the person(s) who will be conducting these test(s). Failure to submit such notification for review and approval prior to the test(s) may result in the Ohio EPA, Southeast District Office's refusal to accept the results of the emission test(s).

f. Personnel from Ohio EPA, Southeast District Office shall be permitted to witness the test(s), 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.

g. A comprehensive written report on the results of the emission test(s) shall be signed by the person or persons responsible for the tests and submitted to the Ohio EPA, Southeast District Office within 30 days following completion of the test(s). The permittee may request additional time for the submittal of the written report, where warranted, with prior approval from the Portsmouth Local Air Agency.

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

g) Miscellaneous Requirements

(1) None.

3. P003, Main Cooling Tower

Operations, Property and/or Equipment Description:

7-cell mechanical draft 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 operation(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 are identified below. 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) (PTI P0120259 issued 2/5/16)	Particulate emissions (PE) shall not exceed 2.08 lbs/hr. The requirements of this rule also include compliance with the requirements of OAC rules 3745-17-07(A) and 3745-31-10 through 3745-31-20.
b.	OAC rule 3745-31-10 through 3745-31-20	PE shall not exceed 9.1 tons per rolling, 12-month period.
c.	OAC rule 3745-17-11(B)(4)	The emission limitation required by this applicable rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).
d.	OAC rule 3745-17-07(A)	Visible PE from any stack shall not exceed 20% opacity as a 6-minute average, except as provided by the rule.

(2) Additional Terms and Conditions

a. Based on the "Prevention of Significant Deterioration" (PSD) analysis conducted to ensure the application of "Best Available Control Technology" (BACT), it has been determined that the use of drift eliminators with a maximum drift of 0.0006 percent constitutes BACT for this emissions unit. The emission limitations based on the BACT requirements are listed under 40 CFR 52.21 and OAC rules 3745-31-10 through 3745-31-20 above.

(Authority for term: PTI 06-06792 and OAC rules 3745-31-10 through 3745-31-20)

c) Operational Restrictions

(1) The permittee shall maintain an average total dissolved solids (TDS) content of 4,000 ppm or less in the circulating cooling water.

(Authority for term: PTI 06-06792 and OAC rule 3745-77-07(A)(1))

d) Monitoring and/or Recordkeeping Requirements

(1) The permittee shall monitor the TDS content of the circulating cooling water on a monthly basis.

(Authority for term: PTI P0120259 and OAC rule 3745-77-07(A)(1))

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

a. the monthly TDS content of the circulating cooling water, in ppm;

b. the average total dissolved solids content based on a rolling, 12-month average; and

c. the rolling, 12-month summation of the PE, in tons.

(Authority for term: PTI P0120259 and OAC rule 3745-77-07(C)(1))

e) Reporting Requirements

(1) Unless other arrangements have been approved by the Director, all notifications and reports shall be submitted through the Ohio EPA's eBusiness Center: Air Services online web portal.

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

(2) The permittee shall submit quarterly deviation (excursion) reports that identify the following:

a. any record which shows that the average TDS content of the circulating cooling water exceeds 4,000 ppm (based on a rolling, 12-month average); and

b. all exceedances of the rolling, 12-month emission limitations for PE.

The quarterly deviation reports shall be submitted in accordance with the reporting requirements of the Standard Terms and Conditions of this permit.

(Authority for term: PTI P0120259 and OAC rule 3745-77-07(C)(1))

f) Testing Requirements

(1) Compliance with the Emissions Limitations and/or Control Requirements specified in section b) of these terms and conditions shall be determined in accordance with the following methods:

a. Emissions Limitation:

PE shall not exceed 2.08 lbs/hr.

Applicable Compliance Method:

Compliance with the lbs/hr emission limitation is demonstrated by multiplying the maximum drift loss factor supplied by the permittee (50 lbs drift loss/million gallons water flow based on 0.0006 percent drift) by the maximum circulating water flow rate (10.38 million gallons per hour) and by the average total dissolved solids content (ppm) of the cooling water and dividing by 1,000,000 (ppm).

If required, the permittee shall submit a testing proposal that will demonstrate that the maximum drift loss does not exceed 0.0006 percent.

b. Emissions Limitation:

Visible PE from any stack shall not exceed 20% opacity as a 6-minute average, except as provided by the rule.

Applicable Compliance Method:

If required, visible PE shall be determined according to USEPA Method 9.

c. Emissions Limitation:

PE shall not exceed 9.1 tons per rolling, 12-month period.

Applicable Compliance Method:

Compliance with the rolling, 12-month emission limitation shall be demonstrated by the recordkeeping in d)(2)c.

(Authority for term: OAC rules 3745-31-05(A)(3), 3745-31-10 through 3745-31-20 and 3745-77-07(C)(1))

g) Miscellaneous Requirements

(1) None.