



1/31/2014

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: Renewal  
Permit Number: P0105635

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](http://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) 644-3631 by the end of the 45 day review period if you wish to object to the proposed permit.

Sincerely,

Michael W. Ahern, Manager  
Permit Issuance and Data Management 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:	P0105635
Permit Type:	Renewal
Issued:	1/31/2014
Effective:	To be entered upon final issuance
Expiration:	To be entered upon final issuance





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

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**Proposed Title V Permit**  
Washington Energy Facility  
**Permit Number:** P0105635  
**Facility ID:** 0684000212

**Effective Date:** To be entered upon final issuance

## Authorization

Facility ID: 0684000212  
Facility Description: Natural gas fired combined cycle power plant.  
Application Number(s): A0038105, A0041823, A0044541  
Permit Number: P0105635  
Permit Description: Renewal Title V permit for natural gas-fired combined cycle power plant.  
Permit Type: Renewal  
Issue Date: 1/31/2014  
Effective Date: To be entered upon final issuance  
Expiration Date: To be entered upon final issuance  
Superseded Permit Number: P0091004

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

Washington Energy Facility  
Duke Energy Washington, LLC  
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  
Interim Director



**Proposed Title V Permit**  
Washington Energy Facility  
**Permit Number:** P0105635  
**Facility ID:** 0684000212  
**Effective Date:** To be entered upon final issuance

## **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 recordings for 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 submitted scheduled 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 permit except 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 intermittent consistent 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, no emissions unit identified in this permit that has been certified 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 Requirements Under 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 the Ohio 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 Requirements Under 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.



**Proposed Title V Permit**  
Washington Energy Facility  
**Permit Number:** P0105635  
**Facility ID:** 0684000212

**Effective Date:** To be entered upon final issuance

### **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 of an 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.



**Proposed Title V Permit**  
Washington Energy Facility  
**Permit Number:** P0105635  
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## **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 units contained in this permit are subject to 40 CFR Part 60, Subpart GG: 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.gpoaccess.gov> or by contacting the appropriate Ohio EPA District Office or local air agency.
3. The following emissions units contained in this permit are subject to 40 CFR Part 60, Subpart Da: 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.gpoaccess.gov> or by contacting the appropriate Ohio EPA District Office or local air agency.
4. The permittee shall ensure that any CAIR NOx, SO2, or NOx ozone season units complies with the requirements of OAC Chapter 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, 3745-109-10 and 3745-109-16 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.

Note: Ohio EPA DAPC has completed proposed 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 July 6, 2010, US EPA announced the proposed CAIR replacement rule, the “Transport Rule” as required by the original court vacatur of the federal CAIR program in July 2008. The current time frame for the requirements of this program, as far as new state emission budgets, was to begin with the 2012 control periods, but has now been delayed as a result of a stay of Cross State Air Pollution Rule (CSAPR) by the courts on December 30, 2011 and the subsequent court ruling vacating CSAPR on August 21, 2012.. The CAIR allowances for affected units and requirements of the CAIR will continue for the 2012 control periods and pending the promulgation of a valid replacement.

[Authority for term: OAC rules 3745-109 and 3745-77-07(A)(5)]

5. The following insignificant emissions units 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. The insignificant emissions units listed below are subject to one or more applicable requirements contained in a permit-by-rule, permit-to-install or in the federally-approved versions of OAC Chapters 3745-17, 3745-18, and/or 3745-21.

EU ID	Operations, Property and/or Equipment Description
P004	275 HP John Deere JDFP-06WA Firefighting Water Pump(PBR02911)
P005	400 HP Caterpillar 3406 Electrical Generator(PBR02912)



**Proposed Title V Permit**  
Washington Energy Facility  
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## **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 #06-06792 as issued 08/14/2003)	<p>Nitrogen oxides (NO<sub>x</sub>) emissions shall not exceed 0.035 lb/mmBtu actual heat input, 1.08 lbs/hr, and 2.3 tons/yr.</p> <p>Sulfur dioxide (SO<sub>2</sub>) emissions shall not exceed 0.001 lb/mmBtu actual heat input, 0.031 lb/hr, and 0.07 ton/yr.</p> <p>Carbon monoxide (CO) emissions shall not exceed 0.109lb/mmBtu actual heat input, 3.34 lbs/hr, and 7.0 tons/yr.</p> <p>Volatile organic compounds (VOC) emissions shall not exceed 0.016 lb/mmBtu actual heat input, 0.49 lb/hr, and 1.1 tons/yr.</p> <p>Particulate emissions (PE) shall not exceed 0.01 lb/mmBtu actual heat input, 0.31 lb/hr, and 0.64 ton/yr.</p> <p>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.</p> <p>See c)(1) and c)(2) below.</p>
	OAC rules 3745-31-10 through 3745-31-20	NO <sub>x</sub> emissions shall not exceed 2.3 tons per rolling, 12-month period.



	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
		<p>SO<sub>2</sub> emissions shall not exceed 0.07 ton per rolling, 12-month period.</p> <p>PE emissions shall not exceed 0.64 tons per rolling, 12-month period.</p> <p>CO emissions shall not exceed 7.0 tons per rolling, 12-month period.</p> <p>VOC emissions shall not exceed 1.1 tons per rolling, 12-month period.</p> <p>See b)(2)a.</p>
c.	40 CFR Part 60, Subpart Dc, OAC rule 3745-18-06(A), and OAC rule 3745-17-10(B)(1)	The emission limitations specified by these rules are less stringent than those established pursuant to OAC rule 3745-31-05(A)(3).
d.	OAC rule 3745-17-07(A)	Visible particulate emissions 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 natural gas, low sulfur fuel and low NO<sub>x</sub> 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.

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 06-06792 and OAC rule 3745-77-07(A)(1))*

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

*(Authority for term: PTI 06-06792 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 06-06792 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 06-06792 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<sub>x</sub>, SO<sub>2</sub>, CO and VOC emissions, in tons.

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

e) Reporting Requirements

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

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

- (2) The permittee shall submit 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 NO<sub>x</sub>, SO<sub>2</sub>, CO and VOC emissions.



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

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

- (3) The permittee shall submit annual reports that specify the total PE and NO<sub>x</sub>, SO<sub>2</sub>, 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 06-06792 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. Emission Limitation:

NO<sub>x</sub> emissions shall not exceed 0.035 lb/mmBtu, 1.08 lbs/hr, and 2.3 tons/yr.

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<sub>x</sub> emission factor (0.035 lb/mmBtu) by the rated fuel heat input rate of 30.6 mmBtu/hr.

Compliance with the tons/yr emission limitation shall be demonstrated by multiplying the permittee-supplied NO<sub>x</sub> emission factor (0.035 lb/mmBtu) or emissions unit specific NO<sub>x</sub> emission factor established through emission testing by the actual fuel heat input (mmBtu/hr) and dividing by 2,000 lbs/ton.

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.

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

b. Emission Limitation:

SO<sub>2</sub> emissions shall not exceed 0.001 lb/mmBtu, 0.031 lb/hr, and 0.07 ton/yr.



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<sub>2</sub> emission factor (0.001 lb/mmBtu) by the rated heat input rate (30.6 mmBtu/hr).

Compliance with the ton/yr emission limitation shall be demonstrated by multiplying the permittee-supplied SO<sub>2</sub> emission factor (0.001 lb/mmBtu) or emissions unit specific SO<sub>2</sub> emission factor established through emission testing by the actual fuel heat input (mmBtu/yr) and dividing by 2,000 lbs/ton.

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.

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

c. Emission Limitation:

CO shall not exceed 0.109 lb/mmBtu, 3.34 lbs/hr, and 7.0 tons/yr.

Applicable Compliance Method:

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

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

Compliance with the tons/yr emission limitation shall be demonstrated by multiplying the permittee-supplied CO emission factor (0.109 lb/mmBtu) or emissions unit specific CO emission factor established through emission testing by the actual fuel heat input (mmBtu/yr) and dividing by 2,000 lbs/ton.

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.

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



d. Emission Limitation:

VOC shall not exceed 0.016 lb/mmBtu, 0.49 lb/hr, and 1.1 tons/yr.

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).

Compliance with the tons/yr emission limitation shall be demonstrated by multiplying the permittee-supplied VOC emission factor (0.016 lb of mmBtu) or emissions unit-specific VOC emission factor established through emission testing by the actual fuel heat input (mmBtu/yr) and dividing by 2000 lbs/ton.

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.

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

e. Emission Limitation:

PE emissions shall not exceed 0.01 lb/MMBtu, 0.31 lb/hr, and 0.64 tons/yr.

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<sub>10</sub> emission factor (0.01 lb/mmBtu) by the rated heat input rate (30.6 mmBtu/hr)

Compliance with the tons/yr emission limitation shall be demonstrated by multiplying the permittee-supplied PE emission factor (0.01 lb of PE /mmBtu) or emissions unit-specific PE emission factor established through emission testing by the actual fuel heat input (mmBtu/yr) and dividing by 2000 lbs/ton.

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.

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



f. Emission Limitations:

Emissions, in tons per rolling, 12-month period, shall not exceed the following:

NO<sub>x</sub> emissions shall not exceed 2.3 tons per rolling, 12-month period.  
SO<sub>2</sub> 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 annual emission limitations shall be demonstrated by multiplying the actual fuel heat input (mmBtu per rolling, 12-month period) by the associated emission factors (lb/mmBtu) specified in section f)(1) or emissions unit specific emission factors established through emission testing, and then dividing by 2,000 lbs/ton.

g. Emission Limitation:

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

Applicable Compliance Method:

If required, compliance shall be demonstrated in accordance with the methods and procedures specified in 40 CFR Part 60, Appendix A, Method 9 and OAC rule 3745-17-03(B)(1).

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

g) Miscellaneous Requirements

(1) None.



**2. Emissions Unit Group – Natural Gas Fired Combustion Turbines: P001, P002,**

EU ID	Operations, Property and/or Equipment Description
P001	170 MW GE 7FA Natural Gas Fired Dry Low NOx (DLN) Combustion Turbine No. 1 with selective catalytic reduction.
P002	170 MW GE 7FA Natural Gas Fired Dry Low NOx (DLN) Combustion Turbine No. 2 with selective catalytic reduction.

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) d)(10), e(8), g)(1), g)(2), and g)(3)

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 #06-6792 as issued 08/14/2003)	<p><b>EMISSION LIMITS WITHOUT DUCT BURNER FIRING</b></p> <p>Ammonia (NH<sub>3</sub>) emissions shall not exceed 26.6lbs/hr.</p> <p>Formaldehyde emissions shall not exceed 0.8 lb/hr.</p> <p><b>EMISSION LIMITS WITH DUCT BURNER FIRING</b></p> <p>Ammonia (NH<sub>3</sub>) emissions shall not exceed 28.1 lbs/hr.</p> <p>Formaldehyde emissions shall not exceed 0.82 lb/hr.</p> <p>NH<sub>3</sub> emissions shall not exceed 123.1 tons/yr.</p> <p>Formaldehyde emissions shall not</p>



	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
		<p>exceed 3.6 tons/yr.</p> <p>The requirements of this rule also include compliance with the requirements of 40 CFR Part 60, Subparts Da and GG, and OAC rules 3745-31-10 through 20.</p> <p>See c)(1).</p>
b.	OAC rules 3745-31-10 through 3745-31-20	<p><b>EMISSION LIMITS WITHOUT DUCT BURNER FIRING</b></p> <p>Nitrogen Oxides (NO<sub>x</sub>) emissions shall not exceed 3.0ppmvd at 15% oxygen based on a 3-hour block averaging period and 24.7lbs/hr.</p> <p>Particulate matter (PM) and particulate matter emissions with a diameter less than 10 microns (PM<sub>10</sub>) shall not exceed 19.0lbs/hr.</p> <p>Sulfur dioxide (SO<sub>2</sub>) emissions shall not exceed 1.52 lbs/hr.</p> <p>Carbon monoxide (CO) emissions shall not exceed 8 ppmvd at 15% oxygen based on a 24-hour block averaging period and 43.0lbs/hr.</p> <p>Volatile organic compounds (VOC) emissions shall not exceed 3.0lbs/hr.</p> <p>Sulfuric acid emissions shall not exceed 0.23 lbs/hr.</p> <p>Visible particle emissions from any stack shall not exceed 10% opacity as a 6-minute average.</p> <p><b>EMISSION LIMITS WITH DUCT BURNER FIRING</b></p> <p>Nitrogen Oxides (NO<sub>x</sub>) emissions shall not exceed 3.0 ppmvd at 15% oxygen based on a 3-hour block averaging period and 28.6 lbs/hr.</p> <p>PM/PM<sub>10</sub> shall not exceed 23.4lbs/hr.</p>



	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
		<p>Sulfur dioxide (SO<sub>2</sub>) emissions shall not exceed 1.52lbs/hr.</p> <p>Carbon monoxide (CO) emissions shall not exceed 8 ppmvd at 15% oxygen based on a 24-hour block averaging period and 45.9lbs/hr.</p> <p>Volatile organic compounds (VOC) emissions shall not exceed 7.3lbs/hr.</p> <p>Sulfuric acid emissions shall not exceed 0.23lb/hr.</p> <p>Visible PE from any stack shall not exceed 10% opacity as a 6-minute average.</p> <p>NO<sub>x</sub> emissions shall not exceed 157.5 tons per rolling, 12-month period; including start-up and shutdown emissions.</p> <p>SO<sub>2</sub> emissions shall not exceed 6.7tons per rolling, 12-month period.</p> <p>PM/PM<sub>10</sub> emissions shall not exceed 102.5tons per rolling, 12-month period.</p> <p>CO emissions shall not exceed 453.7tons per rolling, 12-month period, including start-up and shutdown emissions. 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).</p> <p>VOC emissions shall not exceed 63.1tons per rolling, 12-month period, including start-up and shutdown emissions.</p> <p>Sulfuric Acid emissions shall not exceed 1.0 tons per rolling, 12-month period.</p>
c.	40 CFR Part 60, Subpart Da,	See b)(2)a.



	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
	OAC rule 3745-18-06(F), and OAC rule 3745-17-11(B)(4) OAC rule 3745-17-07(A)	
d.	40 CFR Part 60, Subpart GG	See b)(2)a.

(2) Additional Terms and Conditions

- a. The emission limitation required by this applicable rule is equivalent to or less stringent than the emission limitation established pursuant to OAC rules 3745-31-05(A)(3).
- b. 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.
- c. As part of the Best Available Control Technology (BACT) determination for NO<sub>x</sub>, the permittee shall install and maintain dry low NO<sub>x</sub> burners, and a selective catalytic reduction (SCR) system on this emissions unit. Operation of these control systems shall reduce emissions to the NO<sub>x</sub> limitations specified in b)(1)b.
- d. As part of the Best Available Control Technology (BACT) determination for CO, the permittee shall operate the emissions unit in accordance with good combustion practices as recommended by the manufacturer to the CO limitations specified in b)(1)b.
- e. As part of the Best Available Control Technology (BACT) determination for PM/PM<sub>10</sub> and SO<sub>2</sub>, the permittee shall only use natural gas (as specified in c)(1)) in this emissions unit.
- f. As part of the Best Available Control Technology (BACT) determination for VOC, the permittee shall operate the emissions unit in accordance with good combustion practices as recommended by the manufacturer.

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.
- (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<sub>x</sub> 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<sub>x</sub> 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:

<i>Pollutant</i>	<i>Maximum Emission Rate (lbs/hr per turbine)</i>
NO <sub>x</sub>	400
CO	1,658
VOC	94

Compliance with the above CO and NO<sub>x</sub> lbs/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 section d) of this permit.

- (3) Except during periods of startup, the SCR for this emissions unit shall be in operation at all times including periods of shutdown mode of the unit.
- (4) 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.

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 burner;
  - 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<sub>x</sub> 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<sub>x</sub> 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<sub>2</sub>, PM/PM<sub>10</sub>, NH<sub>3</sub>, formaldehyde, and sulfuric acid emissions, in pounds;
  - o. the total NH<sub>3</sub>, formaldehyde emissions, in tons;
  - p. the rolling, 12-month summation of the NO<sub>x</sub> 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<sub>2</sub>, PM/PM<sub>10</sub>, and sulfuric acid emissions, in tons.
- (2) The permittee shall operate and maintain equipment to continuously monitor and record NO<sub>x</sub> emissions from this emissions unit in the units of the applicable standard. Such continuous monitoring and recording equipment shall comply with the requirements of the appropriate sections specified in 40 CFR Part 60.13 and/or 40 CFR Part 75.

The permittee shall maintain records of data obtained by the continuous NO<sub>x</sub> monitoring system including, but not limited to:

- a. emissions of NO<sub>x</sub> in parts per million on an instantaneous (one-minute) basis;
- b. emissions of NO<sub>x</sub> in units established in this permit in the appropriate averaging period during Mode 6, and including start-up and shutdown;



- c. results of quarterly cylinder gas audits or linearity checks;
- d. results of daily zero/span calibration checks and the magnitude of manual calibration adjustments;
- e. results of required relative accuracy test audit(s), including results in units of the applicable standard(s);
- f. hours of operation of the emissions unit, continuous NO<sub>x</sub> monitoring system, and control equipment;
- g. the date, time, and hours of operation of the emissions unit without the control equipment and/or the continuous NO<sub>x</sub> monitoring system;
- h. the date, time, and hours of operation of the emissions unit during any malfunction of the control equipment and/or the continuous NO<sub>x</sub> monitoring system; as well as,
- i. the reason (if known) and the corrective actions taken (if any) for each such event in (g) and (h).

In conjunction with the operation of the NO<sub>x</sub> CEMS, the permittee shall operate and maintain a system to monitor when the duct burners are being fired. The data measured by this system shall be compiled with the data recorded by the NO<sub>x</sub> CEMS.

\* The installation and operation of systems to continuously monitor and record emissions of NO<sub>x</sub> may be performed in lieu of monitoring the nitrogen content of the fuels being fired in the turbine, as required by 40 CFR 60.334(b).

[Authority for term: PTI 06-6792, OAC rule 3745-77-07(C)(1), 40 CFR 60.13, 40 CFR Part 60, Appendices B & F and 40 CFR Part 75]

- (3) The permittee shall operate and maintain equipment to continuously monitor and record CO emissions from this emissions unit in the units established in this permit. Such continuous monitoring and recording equipment shall comply with the requirements specified in 40 CFR Part 60.13 and/or 40 CFR Part 75.

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

- a. emissions of CO in parts per million on an instantaneous (one-minute) basis;
- b. emissions of CO in units established in this permit in the appropriate averaging period during Mode 6, and including start-up and shutdown
- c. results of quarterly cylinder gas audits;
- d. results of daily zero/span calibration checks and the magnitude of manual calibration adjustments;



- e. results of required relative accuracy test audit(s), including results in units of the applicable standard(s);
- f. hours of operation of the emissions unit, and continuous CO monitoring system;
- g. the date, time, and hours of operation of the emissions unit without the continuous CO monitoring system;
- h. the date, time, and hours of operation of the emissions unit during any malfunction of the continuous CO monitoring system; as well as,
- i. the reason (if known) and the corrective actions taken (if any) for each such event in (g) and (h).

In conjunction with the operation of the CO CEMS, the permittee shall operate and maintain a system to monitor when the duct burners are being fired. The data measured by this system shall be compiled with the data recorded by the CO CEMS.

- (4) The permittee shall operate and maintain equipment to continuously monitor and record O<sub>2</sub> emitted from this emissions unit in percent O<sub>2</sub>. The continuous monitoring and recording equipment shall comply with the requirements specified 40 CFR Part 60.13 and/or 40 CFR Part 75.

The permittee shall maintain records of data obtained by the continuous O<sub>2</sub> monitoring system including, but not limited to:

- a. percent O<sub>2</sub> on an instantaneous (one-minute) basis;
- b. results of quarterly cylinder gas audits or linearity checks;
- c. results of daily zero/span calibration checks and the magnitude of manual calibration adjustments;
- d. results of required relative accuracy test audit(s);
- e. hours of operation of the emissions unit, and continuous O<sub>2</sub> monitoring system;
- f. the date, time, and hours of operation of the emissions unit without the continuous O<sub>2</sub> monitoring system;
- g. the date, time, and hours of operation of the emissions unit during any malfunction of the continuous O<sub>2</sub> monitoring system; as well as,
- h. the reason (if known) and the corrective actions taken (if any) for each such event in (f) and (g).

- (5) 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.

- (6) 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<sub>x</sub> and CO pounds per hour emission limits. Hours in which fuel flow is substituted should be included as NO<sub>x</sub> and CO monitoring system downtime.
- (7) The permittee shall monitor the sulfur content and gross calorific value of the fuel being fired in the combustion turbine and duct burner. In accordance with 40 CFR Part 60, Subpart GG, section 60.334 (h)(3), the permittee has demonstrated that the gaseous fuel meets the definition of natural gas in 40 CFR Part 60, Subpart GG, section 60.331(u). Therefore, 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.
- (8) The permittee shall determine the hourly heat input rate to the combustion turbine and duct burner from the fuel flow rate as determined in d)(5) and gross calorific value as determined in d)(7). The heat input rate shall be calculated in accordance with the procedures in section 5 of 40 CFR Part 75, Appendix F.
- (9) 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.
- (10) 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.

e) Reporting Requirements

- (1) The permittee shall submit deviation (excursion) reports that identify each day when a fuel other than natural gas was burned in this emissions unit. Each report shall be submitted within 30 days after the deviation occurred.
- (2) The permittee shall submit quarterly deviation (excursion) reports that identify the following:
  - a. all records which show that the sulfur content of the natural gas exceeded 0.5 grains per 100 standard cubic feet;
  - b. all records which show that the start-up duration exceeded 250 minutes;
  - c. all records which show that the shutdown duration exceeded 120 minutes;



- d. all records which show that the total number of start-up/shutdown cycles exceeded 260;
- e. all exceedances of the NO<sub>x</sub>, CO, and/or VOC start-up limitations; and
- f. all exceedances of the rolling, 12-month NO<sub>x</sub>, CO, VOC, SO<sub>2</sub>, H<sub>2</sub>SO<sub>4</sub> and/or PM/PM<sub>10</sub> emission limitations.

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

- (3) The permittee shall comply with the following quarterly reporting requirements for the emissions unit and its continuous NO<sub>x</sub> 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<sub>x</sub> emissions in excess of any applicable limit specified in this permit, 40 CFR Part 60, 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. 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<sub>x</sub> 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 in section C.1.e)(3)a;
    - v. the total NO<sub>x</sub> 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<sub>x</sub> monitoring system while the emissions unit was in operation;



- viii. results and dates of quarterly cylinder gas audits or linearity checks;
- 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 NO<sub>x</sub> 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<sub>x</sub> monitoring system, emissions unit, and/or control equipment;
- xii. the date, time, and duration of any downtime\*\* of the continuous NO<sub>x</sub> 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 (b)(xi) and (xii).

Each report shall address the operations conducted and data obtained during the previous calendar quarter. These reports shall also contain the total NO<sub>x</sub> emissions for the calendar quarter (in tons), including all data collected during start-up and shutdown periods and all data generated pursuant to the missing data procedures specified in 40 CFR Part 75 and/or the approved data substitution protocol. Data substitution procedures from 40 CFR Part 75 are not to be used for showing compliance with the short term OAC 3745-31-05(A)(3) rule-based or NSPS-based limitation(s) in this permit.

\* 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.

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

- (4) The permittee shall comply with the following quarterly reporting requirements for the emissions unit and its continuous CO 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, 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. 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 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 in section C.1.e)(4)a;
  - 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 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 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, and/or emissions unit;
  - xii. the date, time, and duration of any downtime\*\* of the continuous CO 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 (b)(xi) and (xii).

Each report shall address the operations conducted and data obtained during the previous calendar quarter. These reports shall also contain the total CO emissions for the calendar quarter (in tons), including all data collected during start-up and shutdown periods and all data generated pursuant to the missing data procedures specified in 40



CFR Part 75 and/or the approved data substitution protocol. Data substitution procedures from 40 CFR Part 75 are not to be used for showing compliance with the short term OAC 3745-31-05(A)(3) rule-based or NSPS-based limitation(s) in this permit.

\* 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

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

- (5) The permittee shall comply with the following quarterly reporting requirements for the emissions unit and its continuous O<sub>2</sub> monitoring system:
- a. 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 O<sub>2</sub> monitoring system downtime and malfunction while the emissions unit was on line.
  - b. 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 O<sub>2</sub> and any other associated monitors if applicable;
    - 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 total operating time (hours) of the emissions unit;
    - v. the total operating time of the continuous O<sub>2</sub> monitoring system while the emissions unit was in operation;
    - vi. results and dates of quarterly cylinder gas audits or linearity checks;
    - vii. unless previously submitted, results and dates of the relative accuracy test audit(s) (during appropriate quarter(s));



- viii. unless previously submitted, the results of any relative accuracy test audit showing the continuous O<sub>2</sub> monitor out-of-control and the compliant results following any corrective actions;
- ix. the date, time, and duration of any/each malfunction\* of the continuous O<sub>2</sub> monitoring system while the emissions unit was in operation;
- x. the date, time, and duration of any downtime\* of the continuous O<sub>2</sub> monitoring system while the emissions unit was in operation; and
- xi. the reason (if known) and the corrective actions taken (if any) for each event in (b)(ix) and (x).

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

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

- (6) In lieu of the excess emissions reports required under 40 CFR Part 60.334, the permittee shall submit excess emissions reports for this emissions unit in accordance with this permit.
- (7) The permittee shall submit annual reports that specify the total NO<sub>x</sub>, CO, PM/PM<sub>10</sub>, SO<sub>2</sub>, VOC, NH<sub>3</sub>, formaldehyde, and sulfuric acid 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 each combustion turbine, P001 and P002, in the annual Title V Fee Emissions Report
- (8) The permittee shall include any changes made to a parameter or value used in the dispersion model, that was used to demonstrate compliance with the Toxic Air Contaminant Statute, ORC 3704.03(F), through the predicted 1-hour maximum ground-level concentration, in the quarterly deviation (excursion) reports. If no changes to the emissions, emissions unit(s), or the exhaust stack have been made, then the report shall include a statement to this effect.

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. Emission Limitations:  
  
NO<sub>x</sub> emissions shall not exceed:  
  
3.0 ppmvd at 15% O<sub>2</sub> with or without duct burner firing (based on a 3-hour block averaging period);  
24.7 lbs/hr without duct burner firing;



28.6lbs/hr with duct burner firing; and  
157.5 tons per rolling, 12-month period, including startup/ shutdown emissions.

Applicable Compliance Method:

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 NO<sub>x</sub> and O<sub>2</sub> CEMS and record keeping requirements specified in this permit.

If required, nitrogen oxides emissions shall be determined according to test Methods 1 - 4, and 20 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.

b. Emission Limitations:

PM/PM<sub>10</sub> emissions shall not exceed:

19.0 lbs/hr without duct burner firing;  
23.4lbs/hr with duct burner firing; and  
102.5 tons per rolling, 12-month period.

Applicable Compliance Method:

Ongoing compliance with the lbs/hr emission limitation may be demonstrated through the record keeping requirements specified in this permit and the emissions unit specific PM/PM<sub>10</sub> emission factors established during the emissions testing that demonstrated that the emissions unit was in compliance. Compliance with the tpy emission limitation shall be demonstrated by multiplying the tested hourly emission rate by the actual annual hours of operation, and then dividing by 2000 lbs/ton. The monthly emissions shall be added to the previous 11 months to determine the rolling, 12-month total emissions.

If required, the permittee shall demonstrate compliance with the hourly emission limitations through emission testing performed in accordance with 40 CFR Part 60, Appendix A, Methods 1 through 5 and 40 CFR Part 51, Appendix M, Method 202. Alternative USEPA-approved test methods may be used with prior approval by Ohio EPA.

c. Emission Limitations:

SO<sub>2</sub> emissions shall not exceed:

1.52lbs/hr with or without duct burner firing; and  
6.7tons per rolling, 12-month period.



**Proposed Title V Permit**

Washington Energy Facility

**Permit Number:** P0105635

**Facility ID:** 0684000212

**Effective Date:** To be entered upon final issuance

Applicable Compliance Methods:

Compliance with the hourly emission limitation with and without duct burning shall be determined by the record keeping required in condition d)(1), (2), and (7). Compliance with the annual emission limitation shall be determined by multiplying the hourly emission rate by the actual rolling, 12-month hours of operation both with and without the duct burner firing (as recorded in d)(2)), and dividing by 2000 lbs/ton.

If required, sulfur dioxide emissions shall be determined according to test Methods 1 - 4, and 6 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.

d. Emission Limitations:

VOC emissions shall not exceed:

3.0 lbs/hr without duct burner firing;

7.3lbs/hr with duct burner firing; and

63.1tons per rolling, 12-month period, including startup/ shutdown emissions.

Applicable Compliance Method:

Ongoing compliance with the lbs/hr emission limitations may be demonstrated through the record keeping requirements specified in this permit and the emissions unit specific VOC emission factors established during the emission testing that demonstrated that the emissions unit was in compliance.

Compliance with the tpy emission limitation, including startup and shut down emissions, shall be demonstrated by multiplying the appropriate hourly emission rate by the actual hours of operation, plus multiplying the hourly startup and shut down emission rate by the actual minutes of startup and shut down divided by 60 minutes/hour, and then dividing by 2000 lbs/ton. The monthly emissions shall be added to the previous 11 months to determine the rolling, 12-month total emissions.

If required, organic compound emissions shall be determined according to test Methods 1 - 4, and 18, 25, or 25A 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.

e. Emission Limitations:

CO emissions shall not exceed:

8ppmvdat 15% O<sub>2</sub> withor without duct burner firing (based on a 24-hour block averaging period);



43.0 lbs/hr without duct burner firing;  
45.9lbs/hr with duct burner firing; and  
201.0 tons per rolling, 12-month period during steady-state (mode 6) operation (excludes start-up and shutdown emissions) and 453.7 tons per rolling, 12-month period, including start-up and shutdown emissions.

Applicable Compliance Method:

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

Ongoing compliance with these emission limitations during Mode 6 operation, as well as the annual emission limitations, including startup and shutdown emissions, may be demonstrated based upon the CO and O<sub>2</sub> CEMS and the record keeping requirements specified in this permit.

If required, carbon monoxide emissions shall be determined according to test Methods 1 - 4, and 10 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.

f. Emission Limitations:

NH<sub>3</sub> emissions shall not exceed:

26.6 lbs/hr without duct burner firing;  
28.1lbs/hr with duct burner firing; and  
123.1tons per year.

Applicable Compliance Method:

Ongoing compliance with the lbs/hr emission limitations may be demonstrated through the record keeping requirements specified in this permit and the emissions unit specific NH<sub>3</sub> emission factors established during the emission testing that demonstrated that the emissions unit was in compliance. Compliance with the tpy emission limitation shall be demonstrated by multiplying the hourly emission rate by the actual annual hours of operation, and then dividing by 2000 lbs/ton.

If required, the permittee shall demonstrate compliance with the hourly emission limitations through emission testing performed in accordance with CTM-027 or other USEPA-approved methods.

g. Emission Limitations:

Formaldehyde emissions shall not exceed:

0.82lb/hr with or without duct burner firing; and



3.6tons per year.

Applicable Compliance Method:

Ongoing compliance with the lbs/hr emission limitations may be demonstrated through the record keeping requirements specified in this permit and the emissions unit specific formaldehyde emission factors established during the emission testing that demonstrated that the emissions unit was in compliance.

Compliance with the tpy emission limitation shall be demonstrated by multiplying the hourly emission rate by the actual annual hours of operation, and then dividing by 2000 lbs/ton.

If required, the permittee shall demonstrate compliance with the hourly emission limitations through emission testing performed in accordance with SW-846 Method 0011 or EPA Method 316 or other USEPA-approved methods.

h. Emission Limitations:

Sulfuric acid emissions shall not exceed:

0.23lbs/hr with or without duct burner firing; and  
1.0tons 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 (supplied by permittee) by the maximum heat input. Compliance with the tpy emission limitation shall be demonstrated based upon the record keeping requirements specified in this permit.

If required, the permittee shall demonstrate compliance by emission testing in accordance with 40 CFR Part 60, Appendix A, Methods 1 through 4 and 8.

i. Emission Limitation:

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

Applicable Compliance Method:

Initial compliance with the visible particulate emission limitation was demonstrated through visible emission observations performed in July, 2002.

If required, compliance shall be demonstrated through visible emission observations performed in accordance with 40 CFR Part 60, Appendix A, Method 9.



Effective Date: To be entered upon final issuance

- (2) The permittee shall conduct, or have conducted, emission testing for this emission unit in accordance with the following requirements:
  - a. The emission testing shall be conducted within 6 months after issuance of this permit (following the effective date for the Title V permit) and within 6 months prior to the permit expiration.
  - b. The emission testing\* shall be conducted to demonstrate compliance with the NO<sub>x</sub> and CO, outlet concentrations, the lbs/MMBtu limitations for PE, and the mass emissions limitations for NO<sub>x</sub>, CO, VOC, PE, ammonia, and formaldehyde. The testing schedule outlined in f)(2)a. shall be conducted when the turbine is operating with and without duct burner firing.
  - c. The following test method(s) shall be employed to demonstrate compliance with the above emissions limitations:

NO <sub>x</sub>	Method 20 of 40 CFR Part 60, Appendix A
PE	Method 5 of 40 CFR Part 60, Appendix A
Formaldehyde	SW-846 Method 0011 or EPA Method 316
VOC	Method 25A of 40 CFR Part 60, Appendix A
CO	Method 10 of 40 CFR Part 60, Appendix A
Ammonia	CTM-027

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

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

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

g) Miscellaneous Requirements

- (1) The emission limitations specified in this permit were established using the Ohio EPA's "Air Toxic Policy" and are based on both the materials used and the design parameters of the emissions unit's exhaust system, as specified in the application. The Ohio EPA's "Air Toxic Policy" was applied for each pollutant using the SCREEN 3.0 model (or other Ohio EPA approved model) and comparing the predicted 1-hour maximum ground-level concentration to the Maximum Acceptable Ground-Level Concentration (MAGLC). The following summarizes the results of the modeling:

Pollutant: Formaldehyde

TLV (ug/m3): 273 (Converted from the STEL)

Maximum Hourly Emission Rate (lbs/hr): 1.64\*

Predicted 1-Hour Maximum Ground-Level Concentration (ug/m3): 1.04

MAGLC (ug/m3): 6.5

Pollutant: Sulfuric Acid

TLV (ug/m3): 1,000

Maximum Hourly Emission Rate (lbs/hr): 4.4\*

Predicted 1-Hour Maximum Ground-Level Concentration (ug/m3): 4.07

MAGLC (ug/m3): 23.8

Pollutant: Ammonia

TLV (ug/m3): 17,000

Maximum Hourly Emission Rate (lbs/hr): 69.2\*

Predicted 1-Hour Maximum Ground-Level Concentration (ug/m3): 21.5

MAGLC (ug/m3): 404.8

\* This was modeled for emissions units P001 & P002 combined.

- (2) OAC Chapter 3745-31 requires permittees to apply for and obtain a new or modified permit to install prior to making a "modification" as defined by the OAC rule 3745-31-01. The permittee is hereby advised that the following changes to the process may be determined to be a "modification":
  - a. changes in the composition of the materials used, or the use of new materials, that would result in the emission of a compound with a lower Threshold Limit Value (TLV), as indicated in the most recent version of the handbook entitled "American Conference of Governmental Industrial Hygienists (ACGIH)," than the lowest TLV value specified in the above table;



- b. changes to the emissions unit or its exhaust parameters (e.g., increased emission rate (not including an increase in an “allowable” emission limitation specified in the terms and conditions of this permit), reduced exhaust gas flow rate, and decreased stack height);
  - c. changes in the composition of the materials used, or use of new materials, that would result in the emission of an air contaminant not previously permitted; and,
  - d. changes in the composition of the materials, or use of new materials, that would result in an increase in emissions of any pollutant that has a listed TLV.
- (3) The Ohio EPA will not consider any of the above-mentioned as a “modification” requiring a permit to install, if the following conditions are met:
- a. the change is not otherwise considered a “modification” under OAC Chapter 3745-31;
  - b. the permittee can continue to comply with the allowable emission limitations specified in its permit to install; and,
  - c. prior to the change, the applicant conducts an evaluation pursuant to the Air Toxic Policy, determines that the changed emissions unit still satisfies the Air Toxic Policy, and the permittee maintains documentation that identifies the change and the results of the application of the Air Toxic Policy for the change.

For any change to the emissions unit or its method of operation that either would require an increase in the emission limitation(s) established by this permit or would otherwise be considered a "modification" as defined in OAC rule 3745-31-01, the permittee shall obtain a final permit to install prior to the change.

- (4) In accordance with good engineering practices, the SCR unit(s) 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.
- (5) The permittee shall maintain a written quality assurance/quality control plan for the continuous NO<sub>x</sub> monitoring system, designed to ensure continuous valid and representative readings of NO<sub>x</sub> 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<sub>x</sub> 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<sub>x</sub> 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.

- (6) The permittee shall maintain a written quality assurance/quality control plan for the continuous CO monitoring system, designed to ensure continuous valid and representative readings of CO emissions in units of the applicable standard(s). 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 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 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.

- (7) The permittee shall maintain a written quality assurance/quality control plan for the continuous O<sub>2</sub> monitoring system, designed to ensure continuous valid and representative readings of O<sub>2</sub> emissions in units of the applicable standard(s). 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 O<sub>2</sub> 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 O<sub>2</sub> 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.



**3. P003, Main Cooling Tower**

**Operations, Property and/or Equipment Description:**

7-Cell Mechanical Draft Cooling Tower - Modified

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 06-6792 as issued 08/14/2003)	Particulate emissions (PE) shall not exceed 2.08 lbs/hr and 9.1 tons/yr.  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)	See b)(2)a.
d.	OAC rule 3745-17-07(A)	Visible particulate emissions 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. 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).

c) Operational Restrictions

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



*(Authority for term: PTI 06-6792 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 06-6792 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; and
- b. determine and record the average total dissolved solids content based on a rolling, 12-month average.

*(Authority for term: PTI 06-6792 and OAC rule 3745-77-07(C)(1))*

- (3) The permittee shall maintain annual records of the hours of operation of this emissions unit.

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

e) Reporting Requirements

- (1) The permittee shall submit deviation (excursion) reports that identify any exceedances of the average total dissolved solids content limitation. These quarterly reports shall be submitted in accordance with the reporting requirements of the Standard Terms and Conditions of this permit.

*(Authority for term: PTI 06-6792 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. Emission Limitations:

PE emissions shall not exceed 2.08 lbs/hr and 9.1 tpy.

Applicable Compliance Methods:

Compliance with the lbs/hr emission limitation shall be demonstrated by multiplying the maximum drift loss factor supplied by the permittee (50.0 lbs/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). Compliance with the annual emission limitation shall be



determined by multiplying the hourly emission rate by the annual operating hours and dividing by 2,000 lbs/ton.

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

b. Emission Limitation:

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

Applicable Compliance Method:

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

*(Authority for term: PTI 06-6792 and OAC rule 3745-77-07(C)(1))*

g) Miscellaneous Requirements

- (1) None.