

Facility ID: 0381000043 Issuance type: Title V Preliminary Proposed Permit

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In addition to the terms and conditions, hyperlinks have been inserted into the document so you may more readily access the section of the document you wish to review.

Finally, the term language under "Part III" and before "I. Applicable Emissions Limitations..." has been added to aid in document conversion, and was not part of the original issued permit.

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Facility ID: 0381000043 Issuance type: Title V Preliminary Proposed Permit

Part II - Specific Facility Terms and Conditions

a State and Federally Enforceable Section

1. Nitrogen Oxides (NOx) Budget Trading Program

OAC Chapter 3745-14

a. Office of Regulatory Information System Facility Code - 4911

b. The following regulated electrical generating units are subject to the applicable requirements specified in OAC Chapter 3745-14: P001, P002 and P003. These units are new regulated electrical generating units. Annual NOx allowance allocations were not established for these new units when OAC Chapter 3745-14 was promulgated. The annual NOx allowance allocations for emissions units P001, P002 and P003 for calendar years 2005 through 2007 will be established in accordance with OAC rule 3745-14-05(C)(4). Pursuant to OAC rule 3745-14-05(B)(2), the annual NOx allowance allocations for emissions units P001, P002 and P003 for calendar years 2008 through 2012 will be established in accordance with OAC rules 3745-14-05(C)(1) and 3745-14-05(C)(2).

c. The emissions units identified in Section A.2.b above are NOx budget units under OAC rule 3745-14-01(C)(1).

[Authority for term: OAC rule 3745-14-01(C)(1)(a)(i)]

d. The NOx authorized account representative shall submit a complete NOx budget permit application in accordance with the deadlines specified in paragraphs (B)(2) and (B)(3) of OAC rule 3745-14-03. The NOx authorized account representative shall also submit, in a timely manner, any supplemental information that the Director determines is necessary in order to review a NOx budget permit application and issue or deny a NOx budget permit.

[Authority for term: OAC rules 3745-14-01(E)(1)(a)(i), 3745-14-01(E)(1)(a)(i), and 3745-14-03(B)(1)]

e. Beginning May 31, 2004, the owners and operators of each NOx budget source and each NOx budget unit at the source shall hold NOx allowances available for compliance deductions under paragraph (E) of OAC rule 3745-14-06, as of the NOx allowance transfer deadline, in the unit's compliance account and the source's overdraft account in an amount not less than the total NOx emissions for the control period from the unit, as determined in accordance with OAC rule 3745-14-08, plus any amount necessary to account for actual utilization under paragraph (C)(5) of OAC rule 3745-14-05 for the control period.

[Authority for term: OAC rules 3745-14-01(E)(3)(a) and 3745-14-03(E)(3)(c)]

f. NOx allowances shall be held in, deducted from, or transferred among NOx allowance tracking system accounts in accordance with OAC rules 3745-14-05, 3745-14-06, 3745-14-07, and 3745-14-09.

[Authority for term: OAC rule 3745-14-01(E)(3)(d)]

g. A NOx allowance shall not be deducted, in order to comply with the requirement under paragraph (E)(3)(a) of OAC rule 3745-14-01, for a control period in a year prior to the year for which the NOx allowance was allocated.

[Authority for term: OAC rule 3745-14-01(E)(3)(e)]

h. Each ton of NOx emitted in excess of the NOx budget emission limitation, as defined in OAC rule 3745-14-01(B)(2)(yy), shall constitute a separate violation of OAC Chapter 3745-14, the Clean Air Act, and applicable Ohio law. The owners and operators of a NOx budget unit that has excess emissions in any control period shall surrender the NOx allowances required for deduction under paragraph (E)(4)(a) of OAC rule 3745-14-06 and pay any fine, penalty, or assessment or comply with any other remedy imposed under paragraph (E)(4)(c) of OAC rule 3745-14-06.

[Authority for term: OAC rules 3745-14-01(E)(3)(b), 3745-14-01(E)(4)(a), and 3745-14-01(E)(4)(b)]

i. When recorded by the Administrator pursuant to OAC rules 3745-14-06 and 3745-14-07, every allocation, transfer, or deduction of a NOx allowance to or from a NOx budget unit's compliance account or the overdraft account of the source where the unit is located is deemed to amend automatically, and become a part of, any NOx budget permit of the NOx budget unit by operation of law without any further review.

[Authority for term: OAC rule 3745-14-01(E)(3)(h)]

- j. Except as provided below, the Director shall revise the NOx budget permit, as necessary, in accordance with OAC rule 3745-77-08.

Each NOx budget permit is deemed to incorporate automatically the definitions of terms under paragraph (B) of OAC rule 3745-14-01 and, when recorded by the Administrator, in accordance with OAC rules 3745-14-06 and 3745-14-07, every allocation, transfer, or deduction of a NOx allowance to or from the compliance accounts of the NOx budget units covered by the permit or the overdraft account of the NOx budget source covered by the permit.

[Authority for term: OAC rules 3745-14-03(D)(2) and 3745-14-03(E)(1)]

- k. The owner or operator of a NOx budget unit shall comply with the prohibitions under OAC rule 3745-14-08 (A)(5).

[Authority for term: OAC rule 3745-14-08(A)(5)]

l. The owners and operators of the NOx budget unit shall keep on site at the source each of the following documents for a period of five years from the date the document is created: (This period may be extended for cause, at any time prior to the end of five years, in writing by the Director or Administrator.)

i. the account certificate of representation for the NOx authorized account representative for the NOx budget unit and all documents that demonstrate the truth of the statements in the account certificate of representation, in accordance with paragraph (D) of OAC rule 3745-14-02, provided that the certificate and documents shall be retained on site at the source beyond such five-year period until such documents are superseded because of the submission of a new account certificate or representation changing the NOx authorized account representative;

ii. all emission monitoring information, in accordance with OAC rule 3745-14-08;

iii. copies of all reports, compliance certifications, and other submissions and all records made or required under the NOx budget trading program; and

iv. copies of all documents used to complete a NOx budget permit application and any other submission under the NOx budget trading program or to demonstrate compliance with the requirements of the NOx budget trading program.

[Authority for term: OAC rules 3745-14-01(E)(5)(a)(i) through (iv)]

m. The permittee shall operate and maintain equipment to continuously monitor and record nitrogen oxides emissions from these emissions units in units of the applicable standard(s). Such continuous monitoring and recording equipment shall comply with the requirements specified in Part III, Section A.III.5 and 40 CFR Part 75.

[Authority for term: OAC rules 3745-14-01(E)(2)(a), 3745-14-01(E)(5)(a)(ii), 3745-14-08(A)(2)(a) through (A)(2)(d), 3745-14-08(B)(1), and 3745-14-08(C)(1)]

n. The permittee shall comply with the monitoring plan requirements of 40 CFR Part 75.62, except that the monitoring plan shall also include all of the information required by Subpart H of 40 CFR Part 75.

[Authority for term: OAC rule 3745-14-08(E)(2)(a)]

o. The NOx authorized account representative of the NOx budget unit shall submit the reports and compliance certifications required under the NOx budget trading program, including those under OAC rules 3745-14-04 and 3745-14-08, to the Director and Administrator.

[Authority for term: OAC rule 3745-14-01(E)(5)(b)]

p. Each submission under the NOx budget trading program shall be submitted, signed, and certified by the NOx authorized account representative for each NOx budget source on behalf of which the submission is made. Each such submission shall include the following certification statement by the NOx authorized account representative:

"I am authorized to make this submission on behalf of the owners and operators of the NOx budget sources or NOx budget units for which the submission is made. I certify under penalty of law that I have personally examined, and am familiar with, the statements and information submitted in this document and all its attachments. Based on my inquiry of those individuals with primary responsibility for obtaining the information, I certify that the statements and information are to the best of my knowledge and belief true, accurate, and complete. I am aware that there are significant penalties for submitting false statements and information or omitting required statements and information, including the possibility of fine or imprisonment."

If the NOx authorized account representative for a NOx budget unit subject to an acid rain emission limitation who signed and certified any submission that is made under Subpart F or G of 40 CFR Part 75 and which includes data and information required under OAC rule 3745-14-08 or Subpart H of 40 CFR Part 75 is not the same person as the designated representative or the alternate designated representative for the unit under 40 CFR Part 72, then the submission shall also be signed by the designated representative or the alternate designated representative.

[Authority for term: OAC rules 3745-14-02(A)(5) and 3745-14-08(E)(1)(b)]

q. The NOx authorized account representative shall submit quarterly reports that include all of the data and information required in Subpart H of 40 CFR Part 75 for each NOx budget unit (or group of units using a common stack) and the data and information in Subpart G of 40 CFR Part 75. These quarterly excess emission reports shall be submitted by January 30, April 30, July 30 and October 30 of each year and shall be submitted in the manner specified in Subpart H of 40 CFR Part 75 and 40 CFR Part 75.64.

[Authority for term: OAC rules 3745-14-08(E)(4)(a) and 3745-14-08(E)(4)(c)(i)]

r. The NOx authorized account representative shall submit to the Administrator a compliance certification in support of each quarterly report based on a reasonable inquiry of those persons with primary responsibility for ensuring that all of the unit's emissions are correctly and fully monitored. The compliance certification

shall state that:

i. the monitoring data submitted were recorded in accordance with the applicable requirements of OAC rule 3745-14-08 and 40 CFR Part 75, including the quality assurance procedures and specifications; and

ii. for a unit with add-on NOx emission controls and for all hours where data are substituted in accordance with 40 CFR Part 75.34(a)(1), the add-on emission control were operating within the range of parameters listed in the quality assurance program under Appendix B of 40 CFR Part 75 and the substitute values do not systematically underestimate the NOx emissions.

[Authority for term: OAC rule 3745-14-08(E)(4)(d)(i) and (ii)]

s. The NOx authorized account representative for a NOx budget unit shall submit written notice of monitoring system certification and re-certification test dates to the Director and the Administrator in accordance with 40 CFR Part 75.61. The NOx authorized account representative shall submit a certification application to the Administrator, U.S. EPA, Region V Office, and the Director within forty-five days after completing all initial or re-certification tests required under paragraph (B) of OAC rule 3745-14-08, including the information required under Subpart H of 40 CFR Part 75.

[Authority for term: OAC rules 3745-14-08(D) and 3745-14-08(E)(3)]

t. For each control period in which one or more NOx budget units at a source are subject to the NOx budget emission limitation, the NOx authorized account representative of the source shall submit to the Director and the Administrator, by November 30 of that year, a compliance certification report for each source covering all such units.

The NOx authorized account representative shall include the following elements in the compliance certification report, in a format prescribed by the Administrator, concerning each unit at the source and subject to the NOx budget emission limitation for the control period covered by the report:

i. identification of each NOx budget unit;

ii. at the NOx authorized account representative's option, the serial numbers of the NOx allowances that are to be deducted from each unit's compliance account under paragraph (E) of OAC rule 3745-14-06 for the control period;

iii. at the NOx authorized account representative's option, for units sharing a common stack and having NOx emissions that are not monitored separately or apportioned in accordance with OAC rule 3745-14-08, the percentage of allowances that is to be deducted from each unit's compliance account under paragraph (E)(5) of OAC rule 3745-14-06; and

iv. the compliance certification under paragraph (A)(3) of OAC rule 3745-14-04.

[Authority for term: OAC rules 3745-14-04(A)(1) and 3745-14-04(A)(2)]

u. In the compliance certification report under Section A.2.t.iv above, the NOx authorized account representative shall certify, based upon reasonable inquiry of those persons with the primary responsibility for operating the source and the NOx budget units at the source in compliance with the NOx budget trading program, whether each NOx budget unit for which the compliance certification is submitted was operated during the calendar year covered by the report in compliance with the requirements of the NOx budget trading program applicable to the unit, including all the following:

i. whether the unit was operated in compliance with the NOx budget emission limitation;

ii. whether the monitoring plan that governs the unit has been maintained to reflect the actual operation and monitoring of the unit, and contains all information necessary to attribute NOx emissions to the unit, in accordance with OAC rule 3745-14-08;

iii. whether all the NOx emissions from the unit, or group of units (including the unit) using a common stack, were monitored or accounted for through the missing data procedures and reported in the quarterly monitoring reports, including whether conditional data were reported in the quarterly reports in accordance with OAC rule 3745-14-08, and if conditional data were reported, the permittee shall indicate whether the status of all conditional data has been resolved and all necessary quarterly report submissions have been made; and

iv. whether the facts that form the basis for certification under OAC rule 3745-14-08 of each monitor at the unit or group of units (including the unit) using a common stack, or for using an excepted monitoring method or alternative monitoring method approved under OAC rule 3745-14-08, if any, have changed.

If a change is required to be reported under Section A.2.u.iv above, specify the nature of the change, the reason for the change, when the change occurred, and how the unit's compliance status was determined subsequent to the change, including what method was used to determine emissions when a change mandated the need for monitor re-certification.

[Authority for term: OAC rule 3745-14-04(A)(3)]

v. The NOx authorized account representative shall submit a complete NOx budget permit renewal application for the NOx budget source covering the NOx budget units at the source in accordance with paragraph (E) of OAC rule 3745-77-08.

[Authority for term: OAC rule 3745-14-03(B)(3)(a)]

w. The emission measurements recorded and reported in accordance with OAC rule 3745-14-08 shall be used to determine compliance by the unit with the NOx budget emission limitation under paragraph (E)(3) of OAC rule 3745-14-01.

[Authority for term: OAC rule 3745-14-01(E)(2)(b)]

x. The permittee shall develop and maintain a written quality assurance/quality control plan for each continuous NOx monitoring system designed to ensure continuous valid and representative readings of NOx emissions in units of the applicable standard. The plan shall follow the requirements of 40 CFR Part 75,

Appendix B. The quality assurance/quality control plan and a logbook dedicated to the continuous NOx monitoring system must be kept on-site and available for inspection during regular office hours.

[Authority for term: OAC rules 3745-14-08(A)(2)(c) and 3745-14-08(A)(2)(d)]

2. The following insignificant emissions units are located at this facility:

T001 - 1,120,000 gallon, #2 fuel oil, fixed-roof storage tank (PTI #03-13410, issued 11/5/02); and
Z001- diesel fire pump.

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

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b State Only Enforceable Section

1. None

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Part III - Terms and Conditions for Emissions Units

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Facility ID: 0381000043 Emissions Unit ID: B001 Issuance type: Title V Preliminary Proposed Permit

A. State and Federally Enforceable Section

The following emissions unit terms and conditions are federally enforceable with the exception of those listed below which are enforceable under state law only.

1. None.

I. Applicable Emissions Limitations and/or Control Requirements

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
12 mmBtu/hr, natural gas-fired, fuel heater	OAC rule 3745-31-05(A)(3) (PTI #03-13683, issued 10/18/01)	0.0076 pound particulate emissions (PE)/mmBtu heat input, 0.10 pound PE/hour and 0.4 ton PE/year
		0.96 pound carbon monoxide (CO)/hour and 4.2 tons CO/year
		1.20 pounds nitrogen oxides (NOx)/hour and 5.3 tons NOx/year
	OAC rule 3745-17-07(A)	See A.I.2.a. Visible PE shall not exceed 20 percent opacity, as a six-minute average, except as provided by rule.
	OAC rule 3745-17-10(B)	See A.I.2.b.
	OAC rule 3745-18-06	See A.I.2.c.
	40 CFR Part 60, Subpart Dc	record keeping requirements (See A.III.2.)

2. Additional Terms and Conditions

- a. The requirements of this rule also include compliance with the requirements of OAC rule 3745-17-07 (A), and 40 CFR Part 60, Subpart Dc.
- b. The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05 (A)(3).
- c. The emissions unit is exempt from the requirements of OAC rule 3745-18-06 in accordance with OAC rule 3745-18-06(A).

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II. Operational Restrictions

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

[OAC rule 3745-77-07(A)(1) and PTI #03-13683]

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III. Monitoring and/or Record Keeping 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.

[OAC rule 3745-77-07(C)(1) and PTI #03-13683]

2. The permittee shall record and maintain records of the amounts of each fuel combusted during each day.

[OAC rule 3745-77-07(C)(1), 40 CFR, Part 60, Subpart Dc and PTI #03-13683]

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IV. 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.

[OAC rule 3745-77-07(C)(1) and PTI #03-13683]

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V. Testing Requirements

1. Compliance with the emission limitations specified in Section A.I of the terms and conditions of this permit shall be determined in accordance with the following methods:

- a. Emission Limitations: 0.0076 pound PE/mmBtu heat input, 0.10 pound PE/hour and 0.4 ton PE/year

Applicable Compliance Method: The pound PE/mmBtu emission limitation represents the potential to emit* for this emissions unit. Therefore no hourly recordkeeping, deviation reporting, or compliance method calculations are required to demonstrate compliance with this limitation.

*Potential to emit was determined using AP-42, 1.4-2 (7/98).

The permittee shall demonstrate compliance with the hourly emission limitation by multiplying 0.0076 pound PE/mmBtu heat input by the maximum heat input of 12.0 mmBtu/hr.

If required, the permittee shall demonstrate compliance with the pound/mmBtu and hourly emission limitations in accordance with Methods 1 - 5 of 40 CFR Part 60, Appendix A.

The annual emission limitation was established by multiplying the hourly limitation by 8760 hours/year and dividing by 2000 pounds/ton. Therefore, provided compliance with the hourly limitation is demonstrated, compliance with the annual limitation shall be assumed.

[OAC rule 3745-77-07(C)(1) and PTI #03-13683]

- b. Emission Limitation: 0.96 pounds CO/hour and 4.2 tons CO/year

Applicable Compliance Method: The permittee shall demonstrate compliance with the hourly emission limitation by multiplying the emission factor of 0.084 pound CO/mmBtu heat input (AP-42 Table 1.4-1, dated 7/98) by the maximum heat input of 12.0 mmBtu/hour. If required, the permittee shall demonstrate compliance with this emission limitation in accordance with Methods 1 - 4 and 10 of 40 CFR Part 60, Appendix A.

The annual emission limitation was established by multiplying the hourly limitation by 8760 hours/year and dividing by 2000 pounds/ton. Therefore, provided compliance with the hourly limitation is demonstrated, compliance with the annual limitation shall be assumed.

[OAC rule 3745-77-07(C)(1) and PTI #03-13683]

- c. Emission Limitation: 1.20 pounds NOx/hour and 5.3 tons NOx/year

Applicable Compliance Method: The permittee shall demonstrate compliance with the hourly emission limitation by multiplying the emission factor of 0.10 pound NOx/mmBtu heat input (AP-42 Table 1.4-1, dated 7/98) by the maximum heat input of 12.0 mmBtu/hr. If required, the permittee shall demonstrate compliance with this emission limitation in accordance with Methods 1 - 4 and 7 of 40 CFR Part 60, Appendix A.

The annual emission limitation was established by multiplying the hourly limitation by 8760 hours/year and dividing by 2000 pounds/ton. Therefore, provided compliance with the hourly limitation is demonstrated, compliance with the annual limitation shall be assumed.

[OAC rule 3745-77-07(C)(1) and PTI #03-13683]

- d. Emission Limitation: Visible PE shall not exceed 20 percent opacity, as a six-minute average, except as provided by rule.

Applicable Compliance Method: If required, compliance with this visible emission limitation shall be determined through visible emissions observations performed in accordance with the procedures specified in OAC rule 3745-17-03(B)(1).

[OAC rule 3745-77-07(C)(1) and PTI #03-13683]

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VI. **Miscellaneous Requirements**

- 1. None

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B. State Enforceable Section

The following emissions unit terms and conditions are federally enforceable with the exception of those listed below which are enforceable under state law only.

- 1. None.

I. **Applicable Emissions Limitations and/or Control Requirements**

- 1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
12 mmBtu/hr, natural gas-fired, fuel heater	none	none
2. Additional Terms and Conditions		
1. None		

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II. **Operational Restrictions**

- 1. None

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III. **Monitoring and/or Record Keeping Requirements**

- 1. None

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IV. **Reporting Requirements**

- 1. None

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V. **Testing Requirements**

- 1. None

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VI. **Miscellaneous Requirements**

- 1. None

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Facility ID: 0381000043 Emissions Unit ID: P001 Issuance type: Title V Preliminary Proposed Permit

A. State and Federally Enforceable Section

The following emissions unit terms and conditions are federally enforceable with the exception of those listed below which are enforceable under state law only.

1. None.

I. Applicable Emissions Limitations and/or Control Requirements

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
GE 7FA simple cycle combustion turbine (unit 1), 167 MW (nominal)	OAC rule 3745-31-05(A)(3) (PTI #03-13410, issued 11/05/02)	See A.I.2.a and A.I.2.e. When firing natural gas, during non-startup and shutdown operations, emissions shall not exceed: 9 ppmvd of nitrogen oxides (NOx) at 15% oxygen (at full load, as a 1-hour average) 65.0 pounds of NOx/hour 12.0 pounds of sulfur dioxide (SO2)/hour 32.0 pounds of carbon monoxide (CO)/hour 3.2 pounds of volatile organic compounds (VOC)/hour 21.3 pounds of particulate emissions (PE)/hour 1.3 pounds of formaldehyde/hour Visible particulate emissions shall not exceed 10% opacity, as a 6-minute average, when firing natural gas. When firing #2 oil/distillate oil, during non-startup and shutdown operations, emissions shall not exceed: 42 ppmvd of NOx at 15% oxygen (at full load, as a 1-hour average) 347.0 pounds of NOx/hour 107.0 pounds of SO2/hour 72.0 pounds of CO/hour 8.0 pounds of VOC/hour 37.0 pounds of PE/hour 0.5 pound of formaldehyde/hour Startup and shutdown emissions from emissions units P001, P002, and P003, combined, shall not exceed the following limitations (See A.I.2.f.): 140.2 tons of CO/year 22.0 tons of NOx/year 11.0 tons of VOC/year Emissions from emissions units P001, P002, and P003, combined, shall not exceed the following:
	OAC rule 3745-31-05(C)	

74.9 tons SO₂ per rolling, 12-month period
 242.3 tons CO per rolling, 12-month period
 243.0 tons NO_x per rolling, 12-month period
 79.6 tons PE per rolling, 12-month period
 4.9 tons of formaldehyde per rolling, 12-month period
 21.2 tons of VOC per rolling, 12-month period
 When firing #2 oil/distillate oil, visible PE shall not exceed 20% opacity, as a 6-minute average, except as provided by rule.
 See A.I.2.c.
 See A.I.2.b.
 See A.I.2.b.
 See A.I.2.d.
 See A.I.2.d.

OAC rule 3745-17-07(A)
 40 CFR Part 60, Subpart GG
 OAC rule 3745-18-06(F)
 OAC rule 3745-17-11(B)(4)
 OAC Chapter 3745-103
 40 CFR Parts 72 and 75

2. Additional Terms and Conditions

- a. The permittee shall install, operate and maintain dry low NO_x burners and a water injection system on this emissions unit.
- b. The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).
- c. The emission limitation and sulfur content restriction specified in this applicable rule are less stringent than the emission limitation and sulfur content restriction established pursuant to OAC rule 3745-31-05(A)(3). Except as provided for in the terms and conditions of this permit, the permittee is not exempt from meeting any additional requirements of 40 CFR Part 60, Subpart GG.
- d. The permittee shall ensure that any affected emissions unit complies with the requirements established under 40 CFR Parts 72 and 75 concerning acid rain. Emissions exceeding any allowances that are lawfully held under Title IV of the Act, or any regulations adopted thereunder, are prohibited.
- e. The requirements of OAC rule 3745-31-05(A)(3) also include compliance with the requirements of OAC rule 3745-31-05(C), and when firing #2 oil/distillate oil, OAC rule 3745-17-07(A).
- f. The annual emission limitations for startup and shutdown emissions apply for both the firing of natural gas and #2 oil/distillate oil.
- g. "Full load" shall be defined as the electrical output at the maximum achievable fuel flow rate to the emissions unit for the ambient and equipment conditions during any operating hour. Any actual electrical output within 10% of the calculated electrical output shall be considered full load.
- h. "Startup/shutdown operation" or "startup and shutdown operation" occurs when the emissions unit is running at less than 50% of the electric output at full load.

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II. Operational Restrictions

- 1. The maximum annual hours* of operation for emissions units P001, P002, and P003, combined, shall not exceed any of the following:
 - a. 7477 hours per rolling, 12-month period when firing natural gas;
 - b. 1400 hours per rolling, 12-month period when firing #2 oil/distillate oil; and
 - c. 7477 cumulative hours of operation per rolling, 12-month period for the firing of natural gas and #2 oil/distillate oil, where:
 - i. 1 hour of operation firing natural gas = 1.0 hour of operation; and
 - ii. 1 hour of operation firing #2 oil/distillate oil = 5.34 hours of operation.

*Startup and shutdown periods are to be included in these cumulative hourly operational restrictions.
 [OAC rule 3745-77-07(A)(1) and PTI #03-13410]
- 2. With the exception of startup and shutdown periods, this emissions unit shall be operated at a minimum of 50% of full load. The permittee may petition the Ohio EPA, Northwest District Office (NWDO) to operate at a greater load range if it can demonstrate to the Agency's satisfaction that the emissions unit will comply with all applicable emission limitations in this permit and the modeling requirements specified in Engineering

Guide #69.

[OAC rule 3745-77-07(A)(1) and PTI #03-13410]

3. The permittee shall fire only natural gas and #2 oil/distillate oil in this emissions unit.

[OAC rule 3745-77-07(A)(1) and PTI #03-13410]

4. The maximum sulfur content of the natural gas shall not exceed 0.007%, by weight. The maximum sulfur content of the #2 oil/distillate oil shall not exceed 0.05%, by weight.

[OAC rule 3745-77-07(A)(1) and PTI #03-13410]

5. The permittee shall be limited to 550 startups and 550 shutdowns for emissions units P001, P002, and P003, combined, per rolling, 12-month period.

[OAC rule 3745-77-07(A)(1) and PTI #03-13410]

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III. Monitoring and/or Record Keeping Requirements

1. The permittee shall maintain monthly records of the following information for emissions units P001, P002, and P003, combined:

- a. the number of hours of operation when firing natural gas;
 - b. the number of hours of operation when firing #2 oil/distillate oil;
 - c. the cumulative hours of operation when firing natural gas and #2 oil/distillate oil;
 - d. the rolling, 12-month summations of the hours of operation when firing natural gas, when firing #2 oil/distillate oil, and the cumulative hours of operation when firing natural gas and #2 oil/distillate oil;
 - e. the number of startups and shutdowns;
 - f. the startup and shutdown emissions* for NOx, VOC, and CO, in tons;
 - g. the emission rates* for PE, NOx, SO2, CO, VOC, and formaldehyde, in tons; and
 - h. the rolling, 12-month summations of the emission rates for PE, NOx, SO2, CO, VOC, and formaldehyde (including startup and shutdown emissions for NOx, CO, and VOC), in tons.
- * The permittee shall use the continuous NOx emission monitoring data to determine the NOx emissions for these emissions units. During any period when the continuous NOx emission monitoring systems are not operational, the permittee shall use the appropriate missing data procedures specified in 40 CFR Part 75 to determine the NOx emissions. The permittee shall use the most recent emission test data multiplied by the hours of operation to determine the PE, CO, VOC, and formaldehyde emissions for these emissions units. The permittee shall use the most recent emission test data or the fuel flow and fuel sulfur content data to determine the SO2 emissions for these emissions units. The following permittee-supplied emission factors may be used to determine the CO and VOC emissions during each emissions unit startup and shutdown: for natural gas (#2 oil/distillate oil) startups; 360.0 (220.0) lbs of CO/hr and 20.0 (20.0) lbs of VOC/hr, and for shutdowns; 150 (120) lbs of CO/hr and 20.0 (20.0) lbs of VOC/hr.

[OAC rule 3745-77-07(C)(1) and PTI #03-13410]

2. For each day during which the permittee fires a fuel other than natural gas or #2 oil/distillate oil, the permittee shall maintain a record of the type and quantity of fuel fired in this emissions unit.

[OAC rule 3745-77-07(C)(1) and PTI #03-13410]

3. The information management system for this emissions unit shall be capable of monitoring and recording fuel flow (gallons and million cu ft), percent load, and hours of 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 appropriate missing data procedures specified in 40 CFR Part 75.

[OAC rule 3745-77-07(C)(1) and PTI #03-13410]

4. Except as provided below, the permittee shall comply with the fuel monitoring and testing provisions specified in 40 CFR Part 60.334(b) and 40 CFR Part 60.335(d). In lieu of complying with the aforementioned fuel sulfur content monitoring and testing provisions, the permittee may elect to comply with the applicable monitoring and testing requirements specified in 40 CFR Part 75, Appendix D, Sections 2.2 and 2.3 for fuel oil and natural gas, respectively.

Where applicable, the permittee shall maintain records of the sulfur contents and heating values of the fuels fired in this emissions unit. ASTM D2880, D129, D1552, D2622, or D4294 shall be used to determine the sulfur content of the fuel oil and ASTM D1072, D3031, D4084, D4468, D5504, or D3246 shall be used to determine the sulfur content of the natural gas. ASTM D240 shall be used to determine the heat value of the fuel oil and ASTM D1826, D3588, or D4891 shall be used to determine the heat value of the natural gas. The most recent revisions to the applicable test method shall be used for these analyses. Alternative, equivalent methods may be used upon written approval by the Ohio EPA, NWDO.

[OAC rule 3745-77-07(C)(1) and PTI #03-13410]

5. Except for periods described in 40 CFR part 60.13, the permittee shall operate and maintain equipment to

continuously monitor and record NOx from this emissions unit in the units established in this permit. The continuous monitoring and recording equipment shall comply with the requirements specified in 40 CFR Part 60.13 and/or 40 CFR Part 75 or as approved by the Ohio EPA.

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

The installation and operation of systems to continuously monitor and record emissions of NOx may be performed in lieu of continuously monitoring the fuel consumption, water ratio, and nitrogen content of the fuel being fired in the turbine, as required by 40 CFR 60.334.

A statement of certification of the existing continuous NOx monitoring system shall be maintained on site and shall consist of a letter from the Ohio EPA detailing the results of an Agency review of the certification tests and a statement by the Agency that the system is considered certified in accordance with the requirements of 40 CFR Part 60, Appendix B, Performance Specification 2 and/or 40 CFR Part 75. Proof of certification shall be made available to the Director (the appropriate Ohio EPA District Office or local air agency) upon request.

[OAC rule 3745-77-07(C)(1) and PTI #03-13410]

6. In lieu of installing an oxygen monitor as part of the NOx monitoring system, the permittee has installed the carbon dioxide monitor, and on July 16, 2002, the permittee successfully completed the monitoring system accuracy demonstration.

[OAC rule 3745-77-07(C)(1) and PTI #03-13410]

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IV. Reporting Requirements

1. The permittee shall submit quarterly deviation (excursion) reports that identify each day when a fuel other than natural gas or #2 oil/distillate oil was burned in this emissions unit.

[OAC rule 3745-77-07(C)(1) and PTI #03-13410]

2. The permittee shall submit quarterly deviation (excursion) reports that identify all exceedances of the rolling, 12-month hours of operation limitations.

[OAC rule 3745-77-07(C)(1) and PTI #03-13410]

3. The permittee shall submit quarterly reports that identify each period during which an exemption for ice-fog provided in 40 CFR Part 60.332 (f) is in effect. The report shall include the ambient conditions existing during the period, the date and time the air pollution control system was deactivated, and the date and time when the air pollution control system was reactivated.

[OAC rule 3745-77-07(C)(1) and PTI #03-13410]

4. The permittee shall submit quarterly deviation (excursion) reports that identify any record which shows that the sulfur content of the natural gas exceeded 0.007%, by weight, or the sulfur content of the #2 oil/distillate oil exceeded 0.05%, by weight.

[OAC rule 3745-77-07(C)(1) and PTI #03-13410]

5. Continuous NOx Emission Reporting

a. Pursuant to OAC rule 3745-15-04, ORC sections 3704.03 (l) and 3704.031, and 40 CFR Parts 60.7 and 60.13 (h), the permittee shall submit reports within 30 days following the end of each calendar quarter to the Ohio EPA, NWDO documenting the date, commencement and completion times, duration, magnitude, reason (if known), and corrective actions taken (if any), of all instances of NOx values in excess of the applicable emission limitations specified in the terms and conditions of this permit (65.0 lbs/hr and 9 ppmvd at 15% oxygen (at full load (as defined in A.I.2.g), as a 1-hour average) when firing natural gas and 347.0 lbs/hr and 42 ppmvd at 15% oxygen (at full load (as defined in A.I.2.g), as a 1-hour average) when firing #2 oil/distillate oil). These reports shall also contain the total NOx emissions for the calendar quarter (in tons).

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

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

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

[OAC rule 3745-77-07(C)(1) and PTI #03-13410]

6. The permittee shall submit quarterly deviation (excursion) reports that identify each time when this emissions unit was not in compliance with the emissions unit operating load requirements specified in Condition A.II.2 above.

[OAC rule 3745-77-07(C)(1) and PTI #03-13410]

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

[OAC rule 3745-77-07(C)(1) and PTI #03-13410]

8. The quarterly deviation (excursion) reports shall be submitted in accordance with General Term and Condition A.1.c of this permit.

[OAC rule 3745-77-07(C)(1) and PTI #03-13410]

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V. Testing Requirements

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

- a. Currently, this emission unit is only firing natural gas, but it has the capability of firing #2 oil/distillate oil. When firing natural gas, the emission testing shall be conducted approximately 2.5 years after issuance. The next time #2 oil/distillate oil is fired, emission testing shall be conducted within 12 months.
- b. The emission testing shall be conducted to demonstrate compliance with the mass emission limitation for CO.
- c. The following test method(s) shall be employed to demonstrate compliance with the above emission limitations: for NOx, Methods 1 - 4 and 20 of 40 CFR Part 60, Appendix A; and for CO Methods 1 - 4 and 10 of 40 CFR Part 60, Appendix A. Alternative U.S. EPA-approved test methods may be used with prior approval from the Ohio EPA, NWDO.
- d. The testing shall be performed at full load, as defined in A.I.2.g, unless otherwise specified or approved by the Ohio EPA, NWDO.
- e. Not later than 45 days prior to the proposed test date(s), the permittee shall submit an "Intent to Test" notification to the Ohio EPA, NWDO. The "Intent to Test" notification shall describe in detail the proposed test methods and procedures, the emissions unit operating parameters, the time(s) and date(s) of the tests, and the person(s) who will be conducting the tests. Failure to submit such notification for review and approval prior to the tests may result in the Ohio EPA, NWDO's refusal to accept the results of the emission tests.
- f. Personnel from the Ohio EPA, NWDO shall be permitted to witness the tests, examine the testing equipment, and acquire data and information necessary to ensure that the operation of the emissions unit and the testing procedures provide a valid characterization of the emissions from the emissions unit and/or the performance of the control equipment.
- g. A comprehensive written report on the results of the emission tests shall be signed by the person or persons responsible for the tests and submitted to the Ohio EPA, NWDO within 30 days following completion of the tests. The permittee may request additional time for the submittal of the written report, where warranted, with prior approval from the Ohio EPA, NWDO.

[OAC rule 3745-77-07(C)(1) and PTI #03-13410]

2. Compliance with the emission limitations specified in Section A.I of the terms and conditions of this permit shall be determined in accordance with the following methods:

- a. Emission Limitations:

when firing natural gas:
65.0 pounds NOx/hour
9 ppmvd NOx at 15% oxygen (at full load, as a 1-hour average)

when firing #2 oil/distillate oil:
347.0 pounds NOx/hour
42 ppmvd NOx at 15% oxygen (at full load, as a 1-hour average)

Applicable Compliance Method: The company has demonstrated initial compliance with the above emission limitations and outlet concentrations. Continued compliance shall be demonstrated by the unbiased actual continuous emission monitoring data obtained per the requirements described in Conditions A.III.5 and A.III.6.

[OAC rule 3745-77-07(C)(1) and PTI #03-13410]

b. Emission Limitations:

when firing natural gas:
32.0 pounds CO/hour

when firing #2 oil/distillate oil:
72.0 pounds CO/hour

Applicable Compliance Method: The permittee shall demonstrate compliance with the above emission limitations in accordance with emission testing as described in Condition A.V.1.

[OAC rule 3745-77-07(C)(1) and PTI #03-13410]

c. Emission Limitations:

when firing natural gas:
21.3 pounds PE/hour
3.2 pounds VOC/hour

when firing #2 oil/distillate oil:
37.0 pounds PE/hour
8.0 pounds VOC/hour

Applicable Compliance Method: The hourly emission limitations represent the emission unit's potential to emit based on emissions data from the vendor.

If required, the permittee shall demonstrate compliance by emission testing in accordance with approved, US EPA test methods, as found in 40 CFR Part 60, Appendix A.

[OAC rule 3745-77-07(C)(1) and PTI #03-13410]

d. Emission Limitations:

when firing natural gas:
12.0 pounds SO₂/hour

when firing #2 oil/distillate oil:
107.0 pounds SO₂/hour

Applicable Compliance Method: The hourly emission limitations represent the emission unit's potential to emit based on the maximum fuel flow rates of the unit, as specified in the permittee's Title V application, and the maximum sulfur content of the fuel (0.05% for fuel oil and 0.007% for natural gas), as established in Condition A.II.4.

If required, the permittee shall demonstrate compliance with the hourly limitations by testing in accordance with Methods 1 - 4 and 6 of 40 CFR, Part 60 Appendix A.

[OAC rule 3745-77-07(C)(1) and PTI #03-13410]

e. Emission Limitations:

when firing natural gas:
1.3 pounds formaldehyde/hour

when firing #2 oil/distillate oil:
0.5 pound formaldehyde/hour

Applicable Compliance Method: The permittee shall demonstrate compliance with the hourly limitations by multiplying the AP-42 emission factors of 0.00028 lb of formaldehyde/mmBtu (natural gas) and 0.00028 lb of formaldehyde/mmBtu (#2 oil) (Section 3.1, Table 3.1-4, dated 4/00) by the maximum heat input (1946.3 mmBtu/hr).

If required, the permittee shall demonstrate compliance with the hourly limitations by testing in accordance with Methods 1 - 4 of 40 CFR, Part 60 Appendix A and Method 320 of 40 CFR, Part 63 Appendix A.

[OAC rule 3745-77-07(C)(1) and PTI #03-13410]

f. Emission Limitation:

when firing natural gas: Visible PE shall not exceed 10% opacity, as a 6-minute average.

Applicable Compliance Method: If required, compliance with this visible emission limitation shall be determined through visible emission observations performed in accordance with 40 CFR Part 60, Appendix A, Method 9.

[OAC rule 3745-77-07(C)(1) and PTI #03-13410]

- g. Emission Limitation:
 - when firing #2 oil/distillate oil:
Visible PE shall not exceed 20% opacity, as a 6-minute average, except as otherwise provided by rule.
 - Applicable Compliance Method: If required, compliance with this visible emission limitation shall be determined through visible emission observations performed in accordance with the procedures specified in OAC rule 3745-17-03(B)(1).
 - [OAC rule 3745-77-07(C)(1) and PTI #03-13410]

- h. Emission Limitations:
 - startup and shutdown emissions:
140.2 tons CO/year
22.0 tons NOx/year
11.0 tons VOC/year
 - Applicable Compliance Method: The permittee shall demonstrate compliance with the annual emission limitations in accordance with the record keeping requirements specified in Condition A.III.1.
 - [OAC rule 3745-77-07(C)(1) and PTI #03-13410]

- i. Emission Limitations:
 - 74.9 tons SO2 per rolling, 12-month period
242.3 tons CO per rolling, 12-month period
243.0 tons NOx per rolling, 12-month period
79.6 tons PE per rolling, 12-month period
21.2 tons VOC per rolling, 12-month period
4.9 tons formaldehyde per rolling, 12-month period
 - Applicable Compliance Method:
The permittee shall demonstrate compliance with the rolling, 12-month emission limitations in accordance with the record keeping requirements specified in Condition A.III.1.

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VI. **Miscellaneous Requirements**

- 1. The permittee shall maintain a written quality assurance/quality control plan for the continuous NOx monitoring system designed to ensure continuous valid and representative readings of NOx emissions in units of the applicable standards. The plan shall follow the requirements of 40 CFR Part 60, Appendix F and/or 40 CFR Part 75, Appendix B. The quality assurance/quality control plan and a record dedicated to the continuous NOx monitoring system must be kept on site and available for inspection during regular office hours.

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Facility ID: 0381000043 Emissions Unit ID: P001 Issuance type: Title V Preliminary Proposed Permit

B. State Enforceable Section

The following emissions unit terms and conditions are federally enforceable with the exception of those listed below which are enforceable under state law only.

- 1. None.

I. **Applicable Emissions Limitations and/or Control Requirements**

- 1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
GE 7FA simple cycle combustion turbine (unit 1), 167 MW (nominal)		See B.III.

- 2. **Additional Terms and Conditions**

1. None

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II. Operational Restrictions

1. None

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III. Monitoring and/or Record Keeping Requirements

1. The permit to install for these emissions units (P001, P002, and P003) were evaluated based on the actual materials and the design parameters of the emissions unit's exhaust system, as specified by the permittee in the permit to install application. The Ohio EPA's "Review of New Sources of Air Toxic Emissions" policy ("Air Toxic Policy") was applied for each pollutant emitted by this emissions unit using data from the permit to install application and the SCREEN 3.0 model. The predicted 1-hour maximum ground-level concentration from the use of the SCREEN 3.0 model was compared to the MAGLC. The following summarizes the results of the modeling for the "worst case" pollutants:

Pollutant: formaldehyde
 TLV (ug/m3): 273 (converted from STEL)
 Maximum Hourly Emission Rate (lbs/hr): 3.9*
 Predicted 1-Hour Maximum Ground-Level Concentration (ug/m3): 3.23
 MAGLC (ug/m3): 6.49

Pollutant: sulfuric acid
 TLV (ug/m3): 1000
 Maximum Hourly Emission Rate (lbs/hr): 33.0*
 Predicted 1-Hour Maximum Ground-Level Concentration (ug/m3): 0.983
 MAGLC (ug/m3): 23.8

* For emissions units P001, P002, and P003 combined.

2. Physical changes to or changes in the method of operation of the emissions unit after its installation or modification could affect the parameters used to determine whether or not the "Air Toxic Policy" is satisfied. Consequently, prior to making a change that could impact such parameters, the permittee shall conduct an evaluation to determine that the "Air Toxic Policy" will still be satisfied. If, upon evaluation, the permittee determines that the "Air Toxic Policy" will not be satisfied, the permittee will not make the change. Changes that can affect the parameters used in applying the "Air Toxic Policy" include the following:
 - a. changes in the composition of the materials used, or the use of new materials, that would result in the emission of a 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 previously modeled;
 - b. changes in the composition of the materials, or use of new materials, that would result in an increase in emissions of any pollutant with a listed TLV that was proposed in the application and modeled; and
 - c. physical changes to the emissions unit or its exhaust parameters (e.g., increased/decreased exhaust flow, changes in stack height, changes in stack diameter, etc.).
 If the permittee determines that the "Air Toxic Policy" will be satisfied for the above changes, the Ohio EPA will not consider the change(s) to be a "modification" under OAC rule 3745-31-01 solely due to the emissions of any type of toxic air contaminant not previously emitted, and a modification of the existing permit to install will not be required, even if the toxic air contaminant emissions are greater than the de minimis level in OAC rule 3745-15-05. If the change(s) is (are) defined as a modification under other provisions of the modification definition, then the permittee shall obtain a final permit to install prior to the change.
3. The permittee shall collect, record, and retain the following information when it conducts evaluations to determine that the changed emissions unit will still satisfy the "Air Toxic Policy:"
 - a. a description of the parameters changed (composition of materials, new pollutants emitted, change in stack/exhaust parameters, etc.);
 - b. documentation of its evaluation and determination that the changed emissions unit still satisfies the "Air Toxic Policy"; and
 - c. where computer modeling is performed, a copy of the resulting computer model runs that show the results of the application of the "Air Toxic Policy" for the change.

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IV. Reporting Requirements

1. None

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V. Testing Requirements

- 1. None

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VI. **Miscellaneous Requirements**

- 1. None

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Facility ID: 0381000043 Emissions Unit ID: P002 Issuance type: Title V Preliminary Proposed Permit

A. State and Federally Enforceable Section

The following emissions unit terms and conditions are federally enforceable with the exception of those listed below which are enforceable under state law only.

- 1. None.

I. Applicable Emissions Limitations and/or Control Requirements

- 1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
GE 7FA simple cycle combustion turbine (unit 2), 167 MW (nominal)	OAC rule 3745-31-05(A)(3) (PTI #03-13410, issued 11/05/02)	See A.I.2.a and A.I.2.e. When firing natural gas, during non-startup and shutdown operations, emissions shall not exceed: 9 ppmvd of nitrogen oxides (NOx) at 15% oxygen (at full load, as a 1-hour average) 65.0 pounds of NOx/hour 12.0 pounds of sulfur dioxide (SO2)/hour 32.0 pounds of carbon monoxide (CO)/hour 3.2 pounds of volatile organic compounds (VOC)/hour 21.3 pounds of particulate emissions (PE)/hour 1.3 pounds of formaldehyde/hour Visible particulate emissions shall not exceed 10% opacity, as a 6-minute average, when firing natural gas. When firing #2 oil/distillate oil, during non-startup and shutdown operations, emissions shall not exceed: 42 ppmvd of NOx at 15% oxygen (at full load, as a 1-hour average) 347.0 pounds of NOx/hour 107.0 pounds of SO2/hour 72.0 pounds of CO/hour 8.0 pounds of VOC/hour 37.0 pounds of PE/hour

	0.5 pound of formaldehyde/hour
	Startup and shutdown emissions from emissions units P001, P002, and P003, combined, shall not exceed the following limitations (See A.1.2.f.):
	140.2 tons of CO/year
	22.0 tons of NOx/year
	11.0 tons of VOC/year
OAC rule 3745-31-05(C)	Emissions from emissions units P001, P002, and P003, combined, shall not exceed the following:
	74.9 tons SO2 per rolling, 12-month period
	242.3 tons CO per rolling, 12-month period
	243.0 tons NOx per rolling, 12-month period
	79.6 tons PE per rolling, 12-month period
	4.9 tons of formaldehyde per rolling, 12-month period
OAC rule 3745-17-07(A)	21.2 tons of VOC per rolling, 12-month period
	When firing #2 oil/distillate oil, visible PE shall not exceed 20% opacity, as a 6-minute average, except as provided by rule.
40 CFR Part 60, Subpart GG	See A.1.2.c.
OAC rule 3745-18-06(F)	See A.1.2.b.
OAC rule 3745-17-11(B)(4)	See A.1.2.b.
OAC Chapter 3745-103	See A.1.2.d.
40 CFR Parts 72 and 75	See A.1.2.d.

2. Additional Terms and Conditions

- a. The permittee shall install, operate and maintain dry low NOx burners and a water injection system on this emissions unit.
- b. The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).
- c. The emission limitation and sulfur content restriction specified in this applicable rule are less stringent than the emission limitation and sulfur content restriction established pursuant to OAC rule 3745-31-05(A)(3). Except as provided for in the terms and conditions of this permit, the permittee is not exempt from meeting any additional requirements of 40 CFR Part 60, Subpart GG.
- d. The permittee shall ensure that any affected emissions unit complies with the requirements established under 40 CFR Parts 72 and 75 concerning acid rain. Emissions exceeding any allowances that are lawfully held under Title IV of the Act, or any regulations adopted thereunder, are prohibited.
- e. The requirements of OAC rule 3745-31-05(A)(3) also include compliance with the requirements of OAC rule 3745-31-05(C), and when firing #2 oil/distillate oil, OAC rule 3745-17-07(A).
- f. The annual emission limitations for startup and shutdown emissions apply for both the firing of natural gas and #2 oil/distillate oil.
- g. "Full load" shall be defined as the electrical output at the maximum achievable fuel flow rate to the emissions unit for the ambient and equipment conditions during any operating hour. Any actual electrical output within 10% of the calculated electrical output shall be considered full load.
- h. "Startup/shutdown operation" or "startup and shutdown operation" occurs when the emissions unit is running at less than 50% of the electric output at full load.

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II. Operational Restrictions

- 1. The maximum annual hours* of operation for emissions units P001, P002, and P003, combined, shall not exceed any of the following:
 - a. 7477 hours per rolling, 12-month period when firing natural gas;
 - b. 1400 hours per rolling, 12-month period when firing #2 oil/distillate oil; and

c. 7477 cumulative hours of operation per rolling, 12-month period for the firing of natural gas and #2 oil/distillate oil, where:

- i. 1 hour of operation firing natural gas = 1.0 hour of operation; and
- ii. 1 hour of operation firing #2 oil/distillate oil = 5.34 hours of operation.

*Startup and shutdown periods are to be included in these cumulative hourly operational restrictions.

[OAC rule 3745-77-07(A)(1) and PTI #03-13410]

- 2. With the exception of startup and shutdown periods, this emissions unit shall be operated at a minimum of 50% of full load. The permittee may petition the Ohio EPA, Northwest District Office (NWDO) to operate at a greater load range if it can demonstrate to the Agency's satisfaction that the emissions unit will comply with all applicable emission limitations in this permit and the modeling requirements specified in Engineering Guide #69.

[OAC rule 3745-77-07(A)(1) and PTI #03-13410]

- 3. The permittee shall fire only natural gas and #2 oil/distillate oil in this emissions unit.

[OAC rule 3745-77-07(A)(1) and PTI #03-13410]

- 4. The maximum sulfur content of the natural gas shall not exceed 0.007%, by weight. The maximum sulfur content of the #2 oil/distillate oil shall not exceed 0.05%, by weight.

[OAC rule 3745-77-07(A)(1) and PTI #03-13410]

- 5. The permittee shall be limited to 550 startups and 550 shutdowns for emissions units P001, P002, and P003, combined, per rolling, 12-month period.

[OAC rule 3745-77-07(A)(1) and PTI #03-13410]

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III. Monitoring and/or Record Keeping Requirements

- 1. The permittee shall maintain monthly records of the following information for emissions units P001, P002, and P003, combined:

- a. the number of hours of operation when firing natural gas;
- b. the number of hours of operation when firing #2 oil/distillate oil;
- c. the cumulative hours of operation when firing natural gas and #2 oil/distillate oil;
- d. the rolling, 12-month summations of the hours of operation when firing natural gas, when firing #2 oil/distillate oil, and the cumulative hours of operation when firing natural gas and #2 oil/distillate oil;
- e. the number of startups and shutdowns;
- f. the startup and shutdown emissions* for NOx, VOC, and CO, in tons;
- g. the emission rates* for PE, NOx, SO2, CO, VOC, and formaldehyde, in tons; and

h. the rolling, 12-month summations of the emission rates for PE, NOx, SO2, CO, VOC, and formaldehyde (including startup and shutdown emissions for NOx, CO, and VOC), in tons.

* The permittee shall use the continuous NOx emission monitoring data to determine the NOx emissions for these emissions units. During any period when the continuous NOx emission monitoring systems are not operational, the permittee shall use the appropriate missing data procedures specified in 40 CFR Part 75 to determine the NOx emissions. The permittee shall use the most recent emission test data multiplied by the hours of operation to determine the PE, CO, VOC, and formaldehyde emissions for these emissions units. The permittee shall use the most recent emission test data or the fuel flow and fuel sulfur content data to determine the SO2 emissions for these emissions units. The following permittee-supplied emission factors may be used to determine the CO and VOC emissions during each emissions unit startup and shutdown: for natural gas (#2 oil/distillate oil) startups; 360.0 (220.0) lbs of CO/hr and 20.0 (20.0) lbs of VOC/hr, and for shutdowns; 150 (120) lbs of CO/hr and 20.0 (20.0) lbs of VOC/hr.

[OAC rule 3745-77-07(C)(1) and PTI #03-13410]

- 2. For each day during which the permittee fires a fuel other than natural gas or #2 oil/distillate oil, the permittee shall maintain a record of the type and quantity of fuel fired in this emissions unit.

[OAC rule 3745-77-07(C)(1) and PTI #03-13410]

- 3. The information management system for this emissions unit shall be capable of monitoring and recording fuel flow (gallons and million cu ft), percent load, and hours of 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 appropriate missing data procedures specified in 40 CFR Part 75.

[OAC rule 3745-77-07(C)(1) and PTI #03-13410]

- 4. Except as provided below, the permittee shall comply with the fuel monitoring and testing provisions specified

in 40 CFR Part 60.334(b) and 40 CFR Part 60.335(d). In lieu of complying with the aforementioned fuel sulfur content monitoring and testing provisions, the permittee may elect to comply with the applicable monitoring and testing requirements specified in 40 CFR Part 75, Appendix D, Sections 2.2 and 2.3 for fuel oil and natural gas, respectively.

Where applicable, the permittee shall maintain records of the sulfur contents and heating values of the fuels fired in this emissions unit. ASTM D2880, D129, D1552, D2622, or D4294 shall be used to determine the sulfur content of the fuel oil and ASTM D1072, D3031, D4084, D4468, D5504, or D3246 shall be used to determine the sulfur content of the natural gas. ASTM D240 shall be used to determine the heat value of the fuel oil and ASTM D1826, D3588, or D4891 shall be used to determine the heat value of the natural gas. The most recent revisions to the applicable test method shall be used for these analyses. Alternative, equivalent methods may be used upon written approval by the Ohio EPA, NWDO.

[OAC rule 3745-77-07(C)(1) and PTI #03-13410]

5. Except for periods described in 40 CFR part 60.13, the permittee shall operate and maintain equipment to continuously monitor and record NOx from this emissions unit in the units established in this permit. The continuous monitoring and recording equipment shall comply with the requirements specified in 40 CFR Part 60.13 and/or 40 CFR Part 75 or as approved by the Ohio EPA.

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

The installation and operation of systems to continuously monitor and record emissions of NOx may be performed in lieu of continuously monitoring the fuel consumption, water ratio, and nitrogen content of the fuel being fired in the turbine, as required by 40 CFR 60.334.

A statement of certification of the existing continuous NOx monitoring system shall be maintained on site and shall consist of a letter from the Ohio EPA detailing the results of an Agency review of the certification tests and a statement by the Agency that the system is considered certified in accordance with the requirements of 40 CFR Part 60, Appendix B, Performance Specification 2 and/or 40 CFR Part 75. Proof of certification shall be made available to the Director (the appropriate Ohio EPA District Office or local air agency) upon request.

[OAC rule 3745-77-07(C)(1) and PTI #03-13410]

6. In lieu of installing an oxygen monitor as part of the NOx monitoring system, the permittee has installed the carbon dioxide monitor, and on July 16, 2002, the permittee successfully completed the monitoring system accuracy demonstration.

[OAC rule 3745-77-07(C)(1) and PTI #03-13410]

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IV. Reporting Requirements

1. The permittee shall submit quarterly deviation (excursion) reports that identify each day when a fuel other than natural gas or #2 oil/distillate oil was burned in this emissions unit.

[OAC rule 3745-77-07(C)(1) and PTI #03-13410]

2. The permittee shall submit quarterly deviation (excursion) reports that identify all exceedances of the rolling, 12-month hours of operation limitations.

[OAC rule 3745-77-07(C)(1) and PTI #03-13410]

3. The permittee shall submit quarterly reports that identify each period during which an exemption for ice-fog provided in 40 CFR Part 60.332 (f) is in effect. The report shall include the ambient conditions existing during the period, the date and time the air pollution control system was deactivated, and the date and time when the air pollution control system was reactivated.

[OAC rule 3745-77-07(C)(1) and PTI #03-13410]

4. The permittee shall submit quarterly deviation (excursion) reports that identify any record which shows that the sulfur content of the natural gas exceeded 0.007%, by weight, or the sulfur content of the #2 oil/distillate oil exceeded 0.05%, by weight.

[OAC rule 3745-77-07(C)(1) and PTI #03-13410]

5. Continuous NOx Emission Reporting

a. Pursuant to OAC rule 3745-15-04, ORC sections 3704.03 (l) and 3704.031, and 40 CFR Parts 60.7 and 60.13 (h), the permittee shall submit reports within 30 days following the end of each calendar quarter to the Ohio EPA, NWDO documenting the date, commencement and completion times, duration, magnitude, reason (if known), and corrective actions taken (if any), of all instances of NOx values in excess of the applicable emission limitations specified in the terms and conditions of this permit (65.0 lbs/hr and 9 ppmvd at 15% oxygen (at full load (as defined in A.I.2.g), as a 1-hour average) when firing natural gas and 347.0 lbs/hr and 42 ppmvd at 15% oxygen (at full load (as defined in A.I.2.g), as a 1-hour average) when firing #2 oil/distillate oil). These reports shall also contain the total NOx emissions for the calendar quarter (in tons).

b. The permittee shall submit reports within 30 days following the end of each calendar quarter to the Ohio EPA, NWDO documenting any continuous NOx monitoring system downtime while the emissions unit was

on line (date, time, duration, and reason) along with any corrective action(s) taken. The permittee shall provide the emissions unit operating time during the reporting period and the date, time, reason and corrective action(s) taken for each time period of emissions unit and control equipment malfunctions. The total operating time of the emissions unit and the total operating time of the analyzer while the emissions unit was on line shall also be included in the quarterly report.

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

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

[OAC rule 3745-77-07(C)(1) and PTI #03-13410]

6. The permittee shall submit quarterly deviation (excursion) reports that identify each time when this emissions unit was not in compliance with the emissions unit operating load requirements specified in Condition A.II.2 above.

[OAC rule 3745-77-07(C)(1) and PTI #03-13410]

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

[OAC rule 3745-77-07(C)(1) and PTI #03-13410]

8. The quarterly deviation (excursion) reports shall be submitted in accordance with General Term and Condition A.1.c of this permit.

[OAC rule 3745-77-07(C)(1) and PTI #03-13410]

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V. Testing Requirements

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

a. Currently, this emission unit is only firing natural gas, but it has the capability of firing #2 oil/distillate oil. When firing natural gas, the emission testing shall be conducted approximately 2.5 years after issuance. The next time #2 oil/distillate oil is fired, emission testing shall be conducted within 12 months.

b. The emission testing shall be conducted to demonstrate compliance with the mass emission limitation for CO.

c. The following test method(s) shall be employed to demonstrate compliance with the above emission limitations: for NOx, Methods 1 - 4 and 20 of 40 CFR Part 60, Appendix A; and for CO Methods 1 - 4 and 10 of 40 CFR Part 60, Appendix A. Alternative U.S. EPA-approved test methods may be used with prior approval from the Ohio EPA, NWDO.

d. The testing shall be performed at full load, as defined in A.I.2.g, unless otherwise specified or approved by the Ohio EPA, NWDO.

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

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

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

[OAC rule 3745-77-07(C)(1) and PTI #03-13410]

2. Compliance with the emission limitations specified in Section A.I of the terms and conditions of this permit shall be determined in accordance with the following methods:

a. Emission Limitations:

when firing natural gas:
65.0 pounds NOx/hour
9 ppmvd NOx at 15% oxygen (at full load, as a 1-hour average)

when firing #2 oil/distillate oil:
347.0 pounds NOx/hour
42 ppmvd NOx at 15% oxygen (at full load, as a 1-hour average)

Applicable Compliance Method: The company has demonstrated initial compliance with the above emission limitations and outlet concentrations. Continued compliance shall be demonstrated by the unbiased actual continuous emission monitoring data obtained per the requirements described in Conditions A.III.5 and A.III.6.

[OAC rule 3745-77-07(C)(1) and PTI #03-13410]

b. Emission Limitations:

when firing natural gas:
32.0 pounds CO/hour

when firing #2 oil/distillate oil:
72.0 pounds CO/hour

Applicable Compliance Method: The permittee shall demonstrate compliance with the above emission limitations in accordance with emission testing as described in Condition A.V.1.

[OAC rule 3745-77-07(C)(1) and PTI #03-13410]

c. Emission Limitations:

when firing natural gas:
21.3 pounds PE/hour
3.2 pounds VOC/hour

when firing #2 oil/distillate oil:
37.0 pounds PE/hour
8.0 pounds VOC/hour

Applicable Compliance Method: The hourly emission limitations represent the emission unit's potential to emit based on emissions data from the vendor.

If required, the permittee shall demonstrate compliance by emission testing in accordance with approved, US EPA test methods, as found in 40 CFR Part 60, Appendix A.

[OAC rule 3745-77-07(C)(1) and PTI #03-13410]

d. Emission Limitations:

when firing natural gas:
12.0 pounds SO₂/hour

when firing #2 oil/distillate oil:
107.0 pounds SO₂/hour

Applicable Compliance Method: The hourly emission limitations represent the emission unit's potential to emit based on the maximum fuel flow rates of the unit, as specified in the permittee's Title V application, and the maximum sulfur content of the fuel (0.05% for fuel oil and 0.007% for natural gas), as established in Condition A.II.4.

If required, the permittee shall demonstrate compliance with the hourly limitations by testing in accordance with Methods 1 - 4 and 6 of 40 CFR, Part 60 Appendix A.

[OAC rule 3745-77-07(C)(1) and PTI #03-13410]

e. Emission Limitations:

when firing natural gas:
1.3 pounds formaldehyde/hour

when firing #2 oil/distillate oil:
0.5 pound formaldehyde/hour

Applicable Compliance Method: The permittee shall demonstrate compliance with the hourly limitations by multiplying the AP-42 emission factors of 0.00028 lb of formaldehyde/mmBtu (natural gas) and 0.00028 lb of formaldehyde/mmBtu (#2 oil) (Section 3.1, Table 3.1-4, dated 4/00) by the maximum heat input (1946.3 mmBtu/hr).

If required, the permittee shall demonstrate compliance with the hourly limitations by testing in accordance with Methods 1 - 4 of 40 CFR, Part 60 Appendix A and Method 320 of 40 CFR, Part 63 Appendix A.

[OAC rule 3745-77-07(C)(1) and PTI #03-13410]

f. Emission Limitation:

when firing natural gas: Visible PE shall not exceed 10% opacity, as a 6-minute average.

Applicable Compliance Method: If required, compliance with this visible emission limitation shall be determined through visible emission observations performed in accordance with 40 CFR Part 60, Appendix A, Method 9.

[OAC rule 3745-77-07(C)(1) and PTI #03-13410]

g. Emission Limitation:

when firing #2 oil/distillate oil:
Visible PE shall not exceed 20% opacity, as a 6-minute average, except as otherwise provided by rule.

Applicable Compliance Method: If required, compliance with this visible emission limitation shall be determined through visible emission observations performed in accordance with the procedures specified in OAC rule 3745-17-03(B)(1).

[OAC rule 3745-77-07(C)(1) and PTI #03-13410]

h. Emission Limitations:

startup and shutdown emissions:
140.2 tons CO/year
22.0 tons NOx/year
11.0 tons VOC/year

Applicable Compliance Method: The permittee shall demonstrate compliance with the annual emission limitations in accordance with the record keeping requirements specified in Condition A.III.1.

[OAC rule 3745-77-07(C)(1) and PTI #03-13410]

i. Emission Limitations:

74.9 tons SO₂ per rolling, 12-month period
242.3 tons CO per rolling, 12-month period
243.0 tons NO_x per rolling, 12-month period
79.6 tons PE per rolling, 12-month period
21.2 tons VOC per rolling, 12-month period
4.9 tons formaldehyde per rolling, 12-month period

Applicable Compliance Method:
The permittee shall demonstrate compliance with the rolling, 12-month emission limitations in accordance with the record keeping requirements specified in Condition A.III.1.

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VI. **Miscellaneous Requirements**

1. The permittee shall maintain a written quality assurance/quality control plan for the continuous NO_x monitoring system designed to ensure continuous valid and representative readings of NO_x emissions in units of the applicable standards. The plan shall follow the requirements of 40 CFR Part 60, Appendix F and/or 40 CFR Part 75, Appendix B. The quality assurance/quality control plan and a record dedicated to the continuous NO_x monitoring system must be kept on site and available for inspection during regular office hours.

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Facility ID: 0381000043 Emissions Unit ID: P002 Issuance type: Title V Preliminary Proposed Permit

B. State Enforceable Section

The following emissions unit terms and conditions are federally enforceable with the exception of those listed below which are enforceable under state law only.

1. None.

I. **Applicable Emissions Limitations and/or Control Requirements**

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

Operations, Property, and/or Equipment	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
GE 7FA simple cycle combustion turbine (unit 2), 167 MW (nominal)		See B.III.

2. **Additional Terms and Conditions**

1. None

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- II. **Operational Restrictions**

1. None

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- III. **Monitoring and/or Record Keeping Requirements**

1. The permit to install for these emissions units (P001, P002, and P003) were evaluated based on the actual materials and the design parameters of the emissions unit's exhaust system, as specified by the permittee in the permit to install application. The Ohio EPA's "Review of New Sources of Air Toxic Emissions" policy ("Air Toxic Policy") was applied for each pollutant emitted by this emissions unit using data from the permit to install application and the SCREEN 3.0 model. The predicted 1-hour maximum ground-level concentration from the use of the SCREEN 3.0 model was compared to the MAGLC. The following summarizes the results of the modeling for the "worst case" pollutants:

Pollutant: formaldehyde
 TLV (ug/m3): 273 (converted from STEL)
 Maximum Hourly Emission Rate (lbs/hr): 3.9*
 Predicted 1-Hour Maximum Ground-Level Concentration (ug/m3): 3.23
 MAGLC (ug/m3): 6.49

Pollutant: sulfuric acid
 TLV (ug/m3): 1000
 Maximum Hourly Emission Rate (lbs/hr): 33.0*
 Predicted 1-Hour Maximum Ground-Level Concentration (ug/m3): 0.983
 MAGLC (ug/m3): 23.8

* For emissions units P001, P002, and P003 combined.

2. Physical changes to or changes in the method of operation of the emissions unit after its installation or modification could affect the parameters used to determine whether or not the "Air Toxic Policy" is satisfied. Consequently, prior to making a change that could impact such parameters, the permittee shall conduct an evaluation to determine that the "Air Toxic Policy" will still be satisfied. If, upon evaluation, the permittee determines that the "Air Toxic Policy" will not be satisfied, the permittee will not make the change. Changes that can affect the parameters used in applying the "Air Toxic Policy" include the following:
 - a. changes in the composition of the materials used, or the use of new materials, that would result in the emission of a 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 previously modeled;
 - b. changes in the composition of the materials, or use of new materials, that would result in an increase in emissions of any pollutant with a listed TLV that was proposed in the application and modeled; and
 - c. physical changes to the emissions unit or its exhaust parameters (e.g., increased/decreased exhaust flow, changes in stack height, changes in stack diameter, etc.).
 If the permittee determines that the "Air Toxic Policy" will be satisfied for the above changes, the Ohio EPA will not consider the change(s) to be a "modification" under OAC rule 3745-31-01 solely due to the emissions of any type of toxic air contaminant not previously emitted, and a modification of the existing permit to install will not be required, even if the toxic air contaminant emissions are greater than the de minimis level in OAC rule 3745-15-05. If the change(s) is (are) defined as a modification under other provisions of the modification definition, then the permittee shall obtain a final permit to install prior to the change.
3. The permittee shall collect, record, and retain the following information when it conducts evaluations to determine that the changed emissions unit will still satisfy the "Air Toxic Policy:"
 - a. a description of the parameters changed (composition of materials, new pollutants emitted, change in stack/exhaust parameters, etc.);
 - b. documentation of its evaluation and determination that the changed emissions unit still satisfies the "Air Toxic Policy"; and
 - c. where computer modeling is performed, a copy of the resulting computer model runs that show the results of the application of the "Air Toxic Policy" for the change.

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IV. **Reporting Requirements**

- 1. None

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V. **Testing Requirements**

- 1. None

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VI. **Miscellaneous Requirements**

- 1. None

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Facility ID: 0381000043 Emissions Unit ID: P003 Issuance type: Title V Preliminary Proposed Permit

A. State and Federally Enforceable Section

The following emissions unit terms and conditions are federally enforceable with the exception of those listed below which are enforceable under state law only.

- 1. None.

I. **Applicable Emissions Limitations and/or Control Requirements**

- 1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
GE 7FA simple cycle combustion turbine (unit 3), 167 MW (nominal)	OAC rule 3745-31-05(A)(3) (PTI #03-13410, issued 11/05/02)	See A.I.2.a and A.I.2.e. When firing natural gas, during non-startup and shutdown operations, emissions shall not exceed: 9 ppmvd of nitrogen oxides (NOx) at 15% oxygen (at full load, as a 1-hour average) 65.0 pounds of NOx/hour 12.0 pounds of sulfur dioxide (SO2)/hour 32.0 pounds of carbon monoxide (CO)/hour 3.2 pounds of volatile organic compounds (VOC)/hour 21.3 pounds of particulate emissions (PE)/hour 1.3 pounds of formaldehyde/hour Visible particulate emissions shall not exceed 10% opacity, as a 6-minute average, when firing natural gas. When firing #2 oil/distillate oil, during non-startup and shutdown operations, emissions shall not exceed: 42 ppmvd of NOx at 15% oxygen (at full load, as a 1-

hour average)
 347.0 pounds of NOx/hour
 107.0 pounds of SO2/hour
 72.0 pounds of CO/hour
 8.0 pounds of VOC/hour
 37.0 pounds of PE/hour
 0.5 pound of formaldehyde/hour
 Startup and shutdown emissions from emissions units P001, P002, and P003, combined, shall not exceed the following limitations (See A.I.2.f.):
 140.2 tons of CO/year
 22.0 tons of NOx/year
 11.0 tons of VOC/year
 Emissions from emissions units P001, P002, and P003, combined, shall not exceed the following:
 74.9 tons SO2 per rolling, 12-month period
 242.3 tons CO per rolling, 12-month period
 243.0 tons NOx per rolling, 12-month period
 79.6 tons PE per rolling, 12-month period
 4.9 tons of formaldehyde per rolling, 12-month period
 21.2 tons of VOC per rolling, 12-month period
 When firing #2 oil/distillate oil, visible PE shall not exceed 20% opacity, as a 6-minute average, except as provided by rule.
 See A.I.2.c.
 See A.I.2.b.
 See A.I.2.b.
 See A.I.2.d.
 See A.I.2.d.

OAC rule 3745-31-05(C)

OAC rule 3745-17-07(A)

40 CFR Part 60, Subpart GG
 OAC rule 3745-18-06(F)
 OAC rule 3745-17-11(B)(4)
 OAC Chapter 3745-103
 40 CFR Parts 72 and 75

2. Additional Terms and Conditions

- a. The permittee shall install, operate and maintain dry low NOx burners and a water injection system on this emissions unit.
- b. The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).
- c. The emission limitation and sulfur content restriction specified in this applicable rule are less stringent than the emission limitation and sulfur content restriction established pursuant to OAC rule 3745-31-05(A)(3). Except as provided for in the terms and conditions of this permit, the permittee is not exempt from meeting any additional requirements of 40 CFR Part 60, Subpart GG.
- d. The permittee shall ensure that any affected emissions unit complies with the requirements established under 40 CFR Parts 72 and 75 concerning acid rain. Emissions exceeding any allowances that are lawfully held under Title IV of the Act, or any regulations adopted thereunder, are prohibited.
- e. The requirements of OAC rule 3745-31-05(A)(3) also include compliance with the requirements of OAC rule 3745-31-05(C), and when firing #2 oil/distillate oil, OAC rule 3745-17-07(A).
- f. The annual emission limitations for startup and shutdown emissions apply for both the firing of natural gas and #2 oil/distillate oil.
- g. "Full load" shall be defined as the electrical output at the maximum achievable fuel flow rate to the emissions unit for the ambient and equipment conditions during any operating hour. Any actual electrical output within 10% of the calculated electrical output shall be considered full load.
- h. "Startup/shutdown operation" or "startup and shutdown operation" occurs when the emissions unit is running at less than 50% of the electric output at full load.

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II. Operational Restrictions

1. The maximum annual hours* of operation for emissions units P001, P002, and P003, combined, shall not exceed any of the following:
 - a. 7477 hours per rolling, 12-month period when firing natural gas;
 - b. 1400 hours per rolling, 12-month period when firing #2 oil/distillate oil; and
 - c. 7477 cumulative hours of operation per rolling, 12-month period for the firing of natural gas and #2 oil/distillate oil, where:
 - i. 1 hour of operation firing natural gas = 1.0 hour of operation; and
 - ii. 1 hour of operation firing #2 oil/distillate oil = 5.34 hours of operation.

*Startup and shutdown periods are to be included in these cumulative hourly operational restrictions.

[OAC rule 3745-77-07(A)(1) and PTI #03-13410]
2. With the exception of startup and shutdown periods, this emissions unit shall be operated at a minimum of 50% of full load. The permittee may petition the Ohio EPA, Northwest District Office (NWDO) to operate at a greater load range if it can demonstrate to the Agency's satisfaction that the emissions unit will comply with all applicable emission limitations in this permit and the modeling requirements specified in Engineering Guide #69.

[OAC rule 3745-77-07(A)(1) and PTI #03-13410]
3. The permittee shall fire only natural gas and #2 oil/distillate oil in this emissions unit.

[OAC rule 3745-77-07(A)(1) and PTI #03-13410]
4. The maximum sulfur content of the natural gas shall not exceed 0.007%, by weight. The maximum sulfur content of the #2 oil/distillate oil shall not exceed 0.05%, by weight.

[OAC rule 3745-77-07(A)(1) and PTI #03-13410]
5. The permittee shall be limited to 550 startups and 550 shutdowns for emissions units P001, P002, and P003, combined, per rolling, 12-month period.

[OAC rule 3745-77-07(A)(1) and PTI #03-13410]

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III. Monitoring and/or Record Keeping Requirements

1. The permittee shall maintain monthly records of the following information for emissions units P001, P002, and P003, combined:
 - a. the number of hours of operation when firing natural gas;
 - b. the number of hours of operation when firing #2 oil/distillate oil;
 - c. the cumulative hours of operation when firing natural gas and #2 oil/distillate oil;
 - d. the rolling, 12-month summations of the hours of operation when firing natural gas, when firing #2 oil/distillate oil, and the cumulative hours of operation when firing natural gas and #2 oil/distillate oil;
 - e. the number of startups and shutdowns;
 - f. the startup and shutdown emissions* for NO_x, VOC, and CO, in tons;
 - g. the emission rates* for PE, NO_x, SO₂, CO, VOC, and formaldehyde, in tons; and
 - h. the rolling, 12-month summations of the emission rates for PE, NO_x, SO₂, CO, VOC, and formaldehyde (including startup and shutdown emissions for NO_x, CO, and VOC), in tons.

* The permittee shall use the continuous NO_x emission monitoring data to determine the NO_x emissions for these emissions units. During any period when the continuous NO_x emission monitoring systems are not operational, the permittee shall use the appropriate missing data procedures specified in 40 CFR Part 75 to determine the NO_x emissions. The permittee shall use the most recent emission test data multiplied by the hours of operation to determine the PE, CO, VOC, and formaldehyde emissions for these emissions units. The permittee shall use the most recent emission test data or the fuel flow and fuel sulfur content data to determine the SO₂ emissions for these emissions units. The following permittee-supplied emission factors may be used to determine the CO and VOC emissions during each emissions unit startup and shutdown: for natural gas (#2 oil/distillate oil) startups; 360.0 (220.0) lbs of CO/hr and 20.0 (20.0) lbs of VOC/hr, and for shutdowns; 150 (120) lbs of CO/hr and 20.0 (20.0) lbs of VOC/hr.

[OAC rule 3745-77-07(C)(1) and PTI #03-13410]
2. For each day during which the permittee fires a fuel other than natural gas or #2 oil/distillate oil, the permittee

shall maintain a record of the type and quantity of fuel fired in this emissions unit.

[OAC rule 3745-77-07(C)(1) and PTI #03-13410]

3. The information management system for this emissions unit shall be capable of monitoring and recording fuel flow (gallons and million cu ft), percent load, and hours of 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 appropriate missing data procedures specified in 40 CFR Part 75.

[OAC rule 3745-77-07(C)(1) and PTI #03-13410]

4. Except as provided below, the permittee shall comply with the fuel monitoring and testing provisions specified in 40 CFR Part 60.334(b) and 40 CFR Part 60.335(d). In lieu of complying with the aforementioned fuel sulfur content monitoring and testing provisions, the permittee may elect to comply with the applicable monitoring and testing requirements specified in 40 CFR Part 75, Appendix D, Sections 2.2 and 2.3 for fuel oil and natural gas, respectively.

Where applicable, the permittee shall maintain records of the sulfur contents and heating values of the fuels fired in this emissions unit. ASTM D2880, D129, D1552, D2622, or D4294 shall be used to determine the sulfur content of the fuel oil and ASTM D1072, D3031, D4084, D4468, D5504, or D3246 shall be used to determine the sulfur content of the natural gas. ASTM D240 shall be used to determine the heat value of the fuel oil and ASTM D1826, D3588, or D4891 shall be used to determine the heat value of the natural gas. The most recent revisions to the applicable test method shall be used for these analyses. Alternative, equivalent methods may be used upon written approval by the Ohio EPA, NWDO.

[OAC rule 3745-77-07(C)(1) and PTI #03-13410]

5. Except for periods described in 40 CFR part 60.13, the permittee shall operate and maintain equipment to continuously monitor and record NOx from this emissions unit in the units established in this permit. The continuous monitoring and recording equipment shall comply with the requirements specified in 40 CFR Part 60.13 and/or 40 CFR Part 75 or as approved by the Ohio EPA.

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

The installation and operation of systems to continuously monitor and record emissions of NOx may be performed in lieu of continuously monitoring the fuel consumption, water ratio, and nitrogen content of the fuel being fired in the turbine, as required by 40 CFR 60.334.

A statement of certification of the existing continuous NOx monitoring system shall be maintained on site and shall consist of a letter from the Ohio EPA detailing the results of an Agency review of the certification tests and a statement by the Agency that the system is considered certified in accordance with the requirements of 40 CFR Part 60, Appendix B, Performance Specification 2 and/or 40 CFR Part 75. Proof of certification shall be made available to the Director (the appropriate Ohio EPA District Office or local air agency) upon request.

[OAC rule 3745-77-07(C)(1) and PTI #03-13410]

6. In lieu of installing an oxygen monitor as part of the NOx monitoring system, the permittee has installed the carbon dioxide monitor, and on July 16, 2002, the permittee successfully completed the monitoring system accuracy demonstration.

[OAC rule 3745-77-07(C)(1) and PTI #03-13410]

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IV. Reporting Requirements

1. The permittee shall submit quarterly deviation (excursion) reports that identify each day when a fuel other than natural gas or #2 oil/distillate oil was burned in this emissions unit.

[OAC rule 3745-77-07(C)(1) and PTI #03-13410]

2. The permittee shall submit quarterly deviation (excursion) reports that identify all exceedances of the rolling, 12-month hours of operation limitations.

[OAC rule 3745-77-07(C)(1) and PTI #03-13410]

3. The permittee shall submit quarterly reports that identify each period during which an exemption for ice-fog provided in 40 CFR Part 60.332 (f) is in effect. The report shall include the ambient conditions existing during the period, the date and time the air pollution control system was deactivated, and the date and time when the air pollution control system was reactivated.

[OAC rule 3745-77-07(C)(1) and PTI #03-13410]

4. The permittee shall submit quarterly deviation (excursion) reports that identify any record which shows that the sulfur content of the natural gas exceeded 0.007%, by weight, or the sulfur content of the #2 oil/distillate oil exceeded 0.05%, by weight.

[OAC rule 3745-77-07(C)(1) and PTI #03-13410]

5. Continuous NOx Emission Reporting

a. Pursuant to OAC rule 3745-15-04, ORC sections 3704.03 (l) and 3704.031, and 40 CFR Parts 60.7 and 60.13 (h), the permittee shall submit reports within 30 days following the end of each calendar quarter to the Ohio EPA, NWDO documenting the date, commencement and completion times, duration, magnitude, reason (if known), and corrective actions taken (if any), of all instances of NOx values in excess of the applicable emission limitations specified in the terms and conditions of this permit (65.0 lbs/hr and 9 ppmvd at 15% oxygen (at full load (as defined in A.1.2.g), as a 1-hour average) when firing natural gas and 347.0 lbs/hr and 42 ppmvd at 15% oxygen (at full load (as defined in A.1.2.g), as a 1-hour average) when firing #2 oil/distillate oil). These reports shall also contain the total NOx emissions for the calendar quarter (in tons).

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

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

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

[OAC rule 3745-77-07(C)(1) and PTI #03-13410]

6. The permittee shall submit quarterly deviation (excursion) reports that identify each time when this emissions unit was not in compliance with the emissions unit operating load requirements specified in Condition A.II.2 above.

[OAC rule 3745-77-07(C)(1) and PTI #03-13410]

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

[OAC rule 3745-77-07(C)(1) and PTI #03-13410]

8. The quarterly deviation (excursion) reports shall be submitted in accordance with General Term and Condition A.1.c of this permit.

[OAC rule 3745-77-07(C)(1) and PTI #03-13410]

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V. Testing Requirements

1. The permittee shall conduct, or have conducted, emission testing for this emissions unit in accordance with the following requirements:
 - a. Currently, this emission unit is only firing natural gas, but it has the capability of firing #2 oil/distillate oil. When firing natural gas, the emission testing shall be conducted approximately 2.5 years after issuance. The next time #2 oil/distillate oil is fired, emission testing shall be conducted within 12 months.
 - b. The emission testing shall be conducted to demonstrate compliance with the mass emission limitation for CO.
 - c. The following test method(s) shall be employed to demonstrate compliance with the above emission limitations: for NOx, Methods 1 - 4 and 20 of 40 CFR Part 60, Appendix A; and for CO Methods 1 - 4 and 10 of 40 CFR Part 60, Appendix A. Alternative U.S. EPA-approved test methods may be used with prior approval from the Ohio EPA, NWDO.
 - d. The testing shall be performed at full load, as defined in A.1.2.g, unless otherwise specified or approved by the Ohio EPA, NWDO.
 - e. Not later than 45 days prior to the proposed test date(s), the permittee shall submit an "Intent to Test" notification to the Ohio EPA, NWDO. The "Intent to Test" notification shall describe in detail the proposed test methods and procedures, the emissions unit operating parameters, the time(s) and date(s) of the tests, and the person(s) who will be conducting the tests. Failure to submit such notification for review and approval prior to the tests may result in the Ohio EPA, NWDO's refusal to accept the results of the emission tests.
 - f. Personnel from the Ohio EPA, NWDO shall be permitted to witness the tests, examine the testing equipment, and acquire data and information necessary to ensure that the operation of the emissions unit and the testing procedures provide a valid characterization of the emissions from the emissions unit

and/or the performance of the control equipment.

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

[OAC rule 3745-77-07(C)(1) and PTI #03-13410]

2. Compliance with the emission limitations specified in Section A.I of the terms and conditions of this permit shall be determined in accordance with the following methods:

- a. Emission Limitations:

when firing natural gas:
65.0 pounds NOx/hour
9 ppmvd NOx at 15% oxygen (at full load, as a 1-hour average)

when firing #2 oil/distillate oil:
347.0 pounds NOx/hour
42 ppmvd NOx at 15% oxygen (at full load, as a 1-hour average)

Applicable Compliance Method: The company has demonstrated initial compliance with the above emission limitations and outlet concentrations. Continued compliance shall be demonstrated by the unbiased actual continuous emission monitoring data obtained per the requirements described in Conditions A.III.5 and A.III.6.

[OAC rule 3745-77-07(C)(1) and PTI #03-13410]

- b. Emission Limitations:

when firing natural gas:
32.0 pounds CO/hour

when firing #2 oil/distillate oil:
72.0 pounds CO/hour

Applicable Compliance Method: The permittee shall demonstrate compliance with the above emission limitations in accordance with emission testing as described in Condition A.V.1.

[OAC rule 3745-77-07(C)(1) and PTI #03-13410]

- c. Emission Limitations:

when firing natural gas:
21.3 pounds PE/hour
3.2 pounds VOC/hour

when firing #2 oil/distillate oil:
37.0 pounds PE/hour
8.0 pounds VOC/hour

Applicable Compliance Method: The hourly emission limitations represent the emission unit's potential to emit based on emissions data from the vendor.

If required, the permittee shall demonstrate compliance by emission testing in accordance with approved, US EPA test methods, as found in 40 CFR Part 60, Appendix A.

[OAC rule 3745-77-07(C)(1) and PTI #03-13410]

- d. Emission Limitations:

when firing natural gas:
12.0 pounds SO2/hour

when firing #2 oil/distillate oil:
107.0 pounds SO2/hour

Applicable Compliance Method: The hourly emission limitations represent the emission unit's potential to emit based on the maximum fuel flow rates of the unit, as specified in the permittee's Title V application, and the maximum sulfur content of the fuel (0.05% for fuel oil and 0.007% for natural gas), as established in Condition A.II.4.

If required, the permittee shall demonstrate compliance with the hourly limitations by testing in accordance with Methods 1 - 4 and 6 of 40 CFR, Part 60 Appendix A.

[OAC rule 3745-77-07(C)(1) and PTI #03-13410]

- e. Emission Limitations:

when firing natural gas:

1.3 pounds formaldehyde/hour

when firing #2 oil/distillate oil:
0.5 pound formaldehyde/hour

Applicable Compliance Method: The permittee shall demonstrate compliance with the hourly limitations by multiplying the AP-42 emission factors of 0.00028 lb of formaldehyde/mmBtu (natural gas) and 0.00028 lb of formaldehyde/mmBtu (#2 oil) (Section 3.1, Table 3.1-4, dated 4/00) by the maximum heat input (1946.3 mmBtu/hr).

If required, the permittee shall demonstrate compliance with the hourly limitations by testing in accordance with Methods 1 - 4 of 40 CFR, Part 60 Appendix A and Method 320 of 40 CFR, Part 63 Appendix A.

[OAC rule 3745-77-07(C)(1) and PTI #03-13410]

f. Emission Limitation:

when firing natural gas: Visible PE shall not exceed 10% opacity, as a 6-minute average.

Applicable Compliance Method: If required, compliance with this visible emission limitation shall be determined through visible emission observations performed in accordance with 40 CFR Part 60, Appendix A, Method 9.

[OAC rule 3745-77-07(C)(1) and PTI #03-13410]

g. Emission Limitation:

when firing #2 oil/distillate oil:
Visible PE shall not exceed 20% opacity, as a 6-minute average, except as otherwise provided by rule.

Applicable Compliance Method: If required, compliance with this visible emission limitation shall be determined through visible emission observations performed in accordance with the procedures specified in OAC rule 3745-17-03(B)(1).

[OAC rule 3745-77-07(C)(1) and PTI #03-13410]

h. Emission Limitations:

startup and shutdown emissions:
140.2 tons CO/year
22.0 tons NOx/year
11.0 tons VOC/year

Applicable Compliance Method: The permittee shall demonstrate compliance with the annual emission limitations in accordance with the record keeping requirements specified in Condition A.III.1.

[OAC rule 3745-77-07(C)(1) and PTI #03-13410]

i. Emission Limitations:

74.9 tons SO₂ per rolling, 12-month period
242.3 tons CO per rolling, 12-month period
243.0 tons NO_x per rolling, 12-month period
79.6 tons PE per rolling, 12-month period
21.2 tons VOC per rolling, 12-month period
4.9 tons formaldehyde per rolling, 12-month period

Applicable Compliance Method:

The permittee shall demonstrate compliance with the rolling, 12-month emission limitations in accordance with the record keeping requirements specified in Condition A.III.1.

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VI. **Miscellaneous Requirements**

- The permittee shall maintain a written quality assurance/quality control plan for the continuous NO_x monitoring system designed to ensure continuous valid and representative readings of NO_x emissions in units of the applicable standards. The plan shall follow the requirements of 40 CFR Part 60, Appendix F and/or 40 CFR Part 75, Appendix B. The quality assurance/quality control plan and a record dedicated to the continuous NO_x monitoring system must be kept on site and available for inspection during regular office hours.

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Facility ID: 0381000043 Emissions Unit ID: P003 Issuance type: Title V Preliminary Proposed Permit

B. State Enforceable Section

The following emissions unit terms and conditions are federally enforceable with the exception of those listed below which are enforceable under state law only.

- 1. None.

I. Applicable Emissions Limitations and/or Control Requirements

- 1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
GE 7FA simple cycle combustion turbine (unit 3), 167 MW (nominal)		See B.III.

2. Additional Terms and Conditions

- 1. None

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II. Operational Restrictions

- 1. None

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III. Monitoring and/or Record Keeping Requirements

- 1. The permit to install for these emissions units (P001, P002, and P003) were evaluated based on the actual materials and the design parameters of the emissions unit's exhaust system, as specified by the permittee in the permit to install application. The Ohio EPA's "Review of New Sources of Air Toxic Emissions" policy ("Air Toxic Policy") was applied for each pollutant emitted by this emissions unit using data from the permit to install application and the SCREEN 3.0 model. The predicted 1-hour maximum ground-level concentration from the use of the SCREEN 3.0 model was compared to the MAGLC. The following summarizes the results of the modeling for the "worst case" pollutants:

Pollutant: formaldehyde
 TLV (ug/m3): 273 (converted from STEL)
 Maximum Hourly Emission Rate (lbs/hr): 3.9*
 Predicted 1-Hour Maximum Ground-Level Concentration (ug/m3): 3.23
 MAGLC (ug/m3): 6.49

Pollutant: sulfuric acid
 TLV (ug/m3): 1000
 Maximum Hourly Emission Rate (lbs/hr): 33.0*
 Predicted 1-Hour Maximum Ground-Level Concentration (ug/m3): 0.983
 MAGLC (ug/m3): 23.8

* For emissions units P001, P002, and P003 combined.

- 2. Physical changes to or changes in the method of operation of the emissions unit after its installation or modification could affect the parameters used to determine whether or not the "Air Toxic Policy" is satisfied. Consequently, prior to making a change that could impact such parameters, the permittee shall conduct an evaluation to determine that the "Air Toxic Policy" will still be still satisfied. If, upon evaluation, the permittee determines that the "Air Toxic Policy" will not be satisfied, the permittee will not make the change. Changes that can affect the parameters used in applying the "Air Toxic Policy" include the following:

a. changes in the composition of the materials used, or the use of new materials, that would result in the emission of a 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 previously modeled;

b. changes in the composition of the materials, or use of new materials, that would result in an increase in emissions of any pollutant with a listed TLV that was proposed in the application and modeled; and

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

If the permittee determines that the "Air Toxic Policy" will be satisfied for the above changes, the Ohio EPA will not consider the change(s) to be a "modification" under OAC rule 3745-31-01 solely due to the emissions of any type of toxic air contaminant not previously emitted, and a modification of the existing permit to install will not be required, even if the toxic air contaminant emissions are greater than the de minimis level in OAC rule 3745-15-05. If the change(s) is (are) defined as a modification under other

provisions of the modification definition, then the permittee shall obtain a final permit to install prior to the change.

3. The permittee shall collect, record, and retain the following information when it conducts evaluations to determine that the changed emissions unit will still satisfy the "Air Toxic Policy:"
 - a. a description of the parameters changed (composition of materials, new pollutants emitted, change in stack/exhaust parameters, etc.);
 - b. documentation of its evaluation and determination that the changed emissions unit still satisfies the "Air Toxic Policy"; and
 - c. where computer modeling is performed, a copy of the resulting computer model runs that show the results of the application of the "Air Toxic Policy" for the change.

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IV. **Reporting Requirements**

1. None

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V. **Testing Requirements**

1. None

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VI. **Miscellaneous Requirements**

1. None