State of Ohio Environmental Protection Agency

RE: FINAL PERMIT TO INSTALL **CERTIFIED MAIL**
DARKE COUNTY

Street Address: Mailing Address: Lazarus Gov. Center
Lazarus Gov. Center **TELE:** (614) 644-3020 **FAX:** (614) 644-2329

Application No: 08-04080

DATE: March 21, 2000

DPL Energy Greenville Electric Generating Station
Frank N Brayton
1985 Founders Drive
Kettering, OH 45420

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

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

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

Environmental Review Appeals Commission
236 East Town Street, Room 300
Columbus, Ohio 43215

Very truly yours,

Thomas G. Rigo

Thomas G. Rigo, Manager
Field Operations and Permit Section
Division of Air Pollution Control

CC: USEPA **RAPCA**

Permit To Install

STATE OF OHIO ENVIRONMENTAL PROTECTION AGENCY

FINAL PERMIT TO INSTALL 08-04080

Application Number:	08-04080
APS Premise Number:	0819070237
Permit Fee:	**$3,750**
Name of Facility:	DPL Energy Greenville Electric Generating Station
Person to Contact:	Frank N Brayton
Address:	1985 Founders Drive Kettering, OH 45420

Location of proposed air contaminant source(s) [emissions unit(s)]:
5125 Sebring Warner Road
Greenville, Ohio

Description of proposed emissions unit(s):
Eight 269.72 mmbtu/hr natural gas and number 2 oil combustion turbines; unpaved roadways; 400,000 gal number 2 oil storage tank.

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

This permit is granted subject to the conditions attached hereto.

Ohio Environmental Protection Agency

Director

Part I - GENERAL TERMS AND CONDITIONS

A. State and Federally Enforceable Permit To Install General Terms and Conditions

1. Monitoring and Related Recordkeeping and Reporting Requirements

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

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

ii. The date(s) analyses were performed.

iii. The company or entity that performed the analyses.

iv. The analytical techniques or methods used.

v. The results of such analyses.

vi. The operating conditions existing at the time of sampling or measurement.

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

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

i. Reports of any required monitoring and/or recordkeeping of federally enforceable information shall be submitted to the appropriate Ohio EPA District Office or local air agency.

ii. Quarterly written reports of (i) any deviations from federally enforceable <u>emission limitations</u>, <u>operational restrictions</u>, <u>and control device operating parameter limitations</u>, excluding deviations resulting from malfunctions reported in accordance with OAC rule 3745-15-06, that have been detected by the testing, monitoring and recordkeeping requirements specified in this permit, (ii) the probable cause of such deviations, and (iii) any corrective actions or preventive measures taken, shall be made to the appropriate Ohio EPA District Office or local air agency. The written reports shall be submitted quarterly, i.e., by January 31, April 30, July 31, and October 31 of each year and shall cover the previous

calendar quarters. See B.11 below if no deviations occurred during the quarter.

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

iv. Each written report shall be signed by a responsible official certifying that, based on information and belief formed after reasonable inquiry, the statements and information in the report are true, accurate, and complete.

2. Scheduled Maintenance/Malfunction Reporting

Any scheduled maintenance of air pollution control equipment shall be performed in accordance with paragraph (A) of OAC rule 3745-15-06. The malfunction, i.e., upset, of any emissions units or any associated air pollution control system(s) shall be reported to the appropriate Ohio EPA District Office or local air agency in accordance with paragraph (B) of OAC rule 3745-15-06. (The definition of an upset condition shall be the same as that used in OAC rule 3745-15-06(B)(1) for a malfunction.) The verbal and written reports shall be submitted pursuant to OAC rule 3745-15-06.
Except as provided in that rule, any scheduled maintenance or malfunction necessitating the shutdown or bypassing of any air pollution control system(s) shall be accompanied by the shutdown of the emission unit(s) that is (are) served by such control system(s).

3. Risk Management Plans

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

4. Title IV Provisions

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

5. Severability Clause

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

declared invalid.

6. General Requirements

a. The permittee must comply with all terms and conditions of this permit. Any noncompliance with the federally enforceable terms and conditions of this permit constitutes a violation of the Act, and is grounds for enforcement action or for permit revocation, revocation and reissuance, or modification, or for denial of a permit renewal application.

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

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

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

e. The permittee shall furnish to the Director of the Ohio EPA, or an authorized representative of the Director, upon receipt of a written request and within a reasonable time, any information that may be requested to determine whether cause exists for modifying, reopening or revoking this permit or to determine compliance with this permit. Upon request, the permittee shall also furnish to the Director or an authorized representative of the Director, copies of records required to be kept by this permit. For information claimed to be confidential in the submittal to the Director, if the Administrator of the U.S. EPA requests such information, the permittee may furnish such records directly to the Administrator along with a claim of confidentiality.

7. Fees

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

8. Federal and State Enforceability

Only those terms and conditions designated in this permit as federally enforceable, that are required under the Act, or any of its applicable requirements, including relevant provisions designed to limit the potential to emit of a source, are enforceable by the Administrator of the U.S. EPA, the State, and citizens under the Act. All other terms and conditions of this permit shall not be federally enforceable and shall be enforceable under State law only.

9. Compliance Requirements

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

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

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

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

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

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

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

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

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

10. Permit To Operate Application

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

b. If the permittee is required to apply for permit(s) pursuant to OAC Chapter 3745-35 , the source(s) identified in this Permit To Install is (are) permitted to operate for a period of up to one year from the date the source(s) commenced operation. Permission to operate is granted only if the facility complies with all requirements contained in this permit and all applicable air pollution laws, regulations, and policies. Pursuant to OAC Chapter 3745-35, the permittee shall submit a complete operating permit application within thirty (30) days after commencing operation of the source(s) covered by this permit.

B. State Only Enforceable Permit To Install General Terms and Conditions

1. Compliance Requirements

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

2. Reporting Requirements Related to Monitoring and Recordkeeping Requirements

The permittee shall submit required reports in the following manner:

a. Reports of any required monitoring and/or recordkeeping of state-only enforceable information shall be submitted to the appropriate Ohio EPA District Office or local air agency.

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

3. Permit Transfers

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

4. Air Pollution Nuisance

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

5. Termination of Permit To Install

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

6. Construction of New Sources(s)

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

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

7. Public Disclosure

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

8. Applicability

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

9. Best Available Technology

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

10. Construction Compliance Certification

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

11. Additional Reporting Requirements When There Are No Deviations of Federally Enforceable Emission Limitations, Operational Restrictions, or Control Device Operating Parameter Limitations (See Section A of This Permit)

If no deviations occurred during a calendar quarter, the permittee shall submit a quarterly report, which states that no deviations occurred during that quarter. The reports shall be submitted quarterly, i.e., by January 31, April 30, July 31, and October 31 of each year and shall cover the previous calendar quarters.

C. Permit To Install Summary of Allowable Emissions

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

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

Pollutant	Tons Per Year
NOx	120
CO	249
SO2	5.7
Particulates	8.9
VOC	7.4

Part II - FACILITY SPECIFIC TERMS AND CONDITIONS

A. State and Federally Enforceable Permit To Install Facility Specific Terms and Conditions

1. The application and enforcement of the provisions of the New Source Performance Standards (NSPS), as promulgated by the United States Environmental Protection Agency, 40 CFR Part 60, are delegated to the Ohio Environmental Protection Agency. The requirements of 40 CFR Part 60 are also federally enforceable.

B. State Only Enforceable Permit To Install Facility Specific Terms and Conditions

None**.**

Part III - SPECIAL TERMS AND CONDITIONS FOR SPECIFIC EMISSIONS UNIT(S)

A. State and Federally Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

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

Operations, Property, and/or Equipment	Applicable Rules/Requirements	OAC rule 3745-17-11(B)(4)
Natural gas and number two fuel oil-fired, simple cycle, combustion turbine, having a nominal capacity of 269.71 mmBtu/hr (25 MW), controlled with a water injection nitrogen oxides reduction system; G1CT1 - Generator No. 1, Turbine No. 1	OAC rule 3745-31-05(D)	
		OAC rule 3745-31-05(A)(3)
	40 CFR Part 75	

		Applicable Emissions Limitations/Control Measures
		120 TPY NOx as a rolling, 12-month summation combined from emissions units B001, B002, B003, B004, B005, B006, B007, and B008.
	OAC rule 3745-17-07(A) OAC rule 3745-18-06(F) 40 CFR Part 60, Subpart GG OAC rule 3745-21-08(B) OAC rule 3745-23-06(B)	249 TPY CO as a rolling, 12-month summation combined from emissions units B001, B002, B003, B004, B005, B006, B007, and B008. 5.7 TPY SO2 as a rolling, 12-month summation combined from emissions units B001, B002, B003, B004, B005, B006, B007, and B008. 7.4 TPY VOC*as a rolling, 12-month summation combined from emissions units B001, B002, B003, B004, B005, B006, B007, and B008. See Sections A.II.6 and A.III.2. for the specific monitoring and record keeping requirements and Section A.IV.3. for the specific reporting requirements.
		0.040 lb particulate emissions/mmBtu actual heat input
		NOx emissions shall not exceed 29.9 lbs/hour and 25 ppmvd at 15% oxygen when firing natural gas, based on a one-hour average as determined through CEMs.

NOx emissions shall not exceed 46.7 lbs/hour and 42 ppmvd at 15% oxygen when firing number two fuel oil, based on a one-hour average as determined through CEMs.

120 TPY NOx combined from B001, B002, B003, B004, B005, B006, B007, and B008.

CO emissions shall not exceed 73.5 lbs/hour when firing natural gas.

CO emissions shall not exceed 33.4 lbs/hour when firing number two fuel oil.

0.06 lb SO2/mmBtu actual heat input

The permittee shall combust oil that contains equal to or less than 0.05 percent by weight sulfur.

0.18 lb/hour SO2 when firing natural gas.

14.7 lbs/hour SO2 when firing number two fuel oil.

2 lbs/hour VOC*, when firing natural gas.

2.7 lbs/hour VOC*, when firing number two fuel oil.

17 lbs/hour OC, when firing natural gas.

10.61 lbs/hour OC, when firing number two fuel oil.

60.1 TPY OC emissions combined from emissions units B001, B002, B003, B004, B005, B006, B007, and B008.

2 lbs/hour particulate emissions when firing natural gas.

7 lbs/hour particulate emissions when firing number 2 fuel oil.

8.9 TPY particulate emissions combined from emissions units B001, B002, B003, B004, B005, B006, B007, and B008.

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

The requirements of this rule also include compliance with the requirements of OAC rule 3745-17-11(B)(4).

The emission limitations from these rules are less stringent than the emission limitations established pursuant to OAC rule 3745-31-05(A)(3) and 3745-31-05(D).

* the permittee has submitted emissions data that supports for purposes of avoiding both federal 112(g) and state of Ohio OAC rule 3745-31-28 regulations that all Hazardous Air Pollutants (HAPs) are less than VOC emissions.

2. Additional Terms and Conditions

2.a Compliance with OAC rule 3745-31-05(A)(3) shall be demonstrated through the use of water injection to reduce nitrogen oxides emissions to 25 ppmvd when burning natural gas and 42 ppmvd when burning number two fuel oil, and the 120 TPY NOx allowable.

2.b In lieu of the requirements of 40 CFR Part 60.334(a) (Subpart GG) to install and operate a continuous monitoring system to monitor the ratio of water to fuel being fired in each turbine, the permittee shall install and operate NOx continuous emissions monitoring system for this emissions unit.

2.c In lieu of monitoring the nitrogen content of the natural gas being fired in the turbine as required by 40 CFR 60 Subpart GG (section 60.334(b)), the permittee shall install and operate systems to continuously monitor and record emissions of NOx from this emissions unit.

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

2.e In lieu of the test methods and procedures required under 40 CFR Part 60.335, the permittee shall follow the testing and Continuous Emissions Monitoring requirements for this emissions unit in accordance with this permit.

2.f Start-up shall be defined as the time necessary to bring a turbine on line from a no load condition to synchronization and shall not exceed a maximum of 15 minutes. Shutdown periods shall not exceed 15 minutes.

II. Operational Restrictions

1. To ensure enforceability during the first twelve calendar months of operation following startup of emissions units B001, B002, B003, B004, B005, B006, B007, and B008, the permittee shall not exceed the cumulative NOx emission rates specified in the following table:

Month	Cumulative Summation of the NOx emission rate (TPY)
1	40
1 - 2	80
1 - 3	120
1 - 4	120
1 - 5	120
1 - 6	120
1 - 7	120
1 - 8	120
1 - 9	120
1 - 10	120
1 - 11	120

1 - 12	120

After the first 12 calendar months of operation following startup of emissions units B001, B002, B003, B004, B005, B006, B007, and B008, compliance with the annual emission limitation shall be based upon a rolling, 12-month summation.

2. To ensure enforceability during the first twelve calendar months of operation following startup of emissions units B001, B002, B003, B004, B005, B006, B007, and B008, the permittee shall not exceed the cumulative CO emission rates specified in the following table:

Month	Cumulative Summation of the CO emission rate (TPY)
1	83
1 - 2	166
1 - 3	249
1 - 4	249
1 - 5	249
1 - 6	249
1 - 7	249
1 - 8	249
1 - 9	249
1 - 10	249
1 - 11	249
1 - 12	249

After the first 12 calendar months of operation following startup of emissions units B001, B002, B003, B004, B005, B006, B007, and B008, compliance with the annual emission limitation shall be based upon a rolling, 12-month summation.

3. To ensure enforceability during the first twelve calendar months of operation following startup of emissions units B001, B002, B003, B004, B005, B006, B007, and B008, the permittee shall not exceed the cumulative SO2 emission rates specified in the following table:

Month	Cumulative Summation of the SO2 emission rate (TPY)
1	1.14
1 - 2	2.28
1 - 3	3.42

1 - 4	4.56
1 - 5	5.7
1 - 6	5.7
1 - 7	5.7
1 - 8	5.7
1 - 9	5.7
1 - 10	5.7
1 - 11	5.7
1 - 12	5.7

After the first 12 calendar months of operation following startup of emissions units B001, B002, B003, B004, B005, B006, B007, and B008, compliance with the annual emission limitation shall be based upon a rolling, 12-month summation.

4. To ensure enforceability during the first twelve calendar months of operation following startup of emissions units B001, B002, B003, B004, B005, B006, B007, and B008, the permittee shall not exceed the cumulative VOC emission rates specified in the following table:

Month	Cumulative Summation of the VOC emission rate (TPY)
1	2.5
1 - 2	4.9
1 - 3	7.4
1 - 4	7.4
1 - 5	7.4
1 - 6	7.4
1 - 7	7.4
1 - 8	7.4
1 - 9	7.4
1 - 10	7.4
1 - 11	7.4
1 - 12	7.4

After the first 12 calendar months of operation following startup of emissions units B001, B002, B003, B004, B005, B006, B007, and B008, compliance with the annual emission limitation shall be based upon a rolling, 12-month summation.

5. The maximum annual operating hours for emissions units B001, B002, B003, B004, B005, B006, B007, and B008 shall not exceed 6,434** while burning natural gas and 694** while burning fuel

oil no. 2., based upon a rolling, 12-month summation of the operating hours.

To ensure enforceability during the first twelve calendar months of operation following startup of emissions units B001, B002, B003, B004, B005, B006, B007, and B008, the permittee shall not exceed the cumulative operating hours levels specified in the following table:

Month	Maximum Allowable Cumulative Operating Hours While Burning Natural Gas**	Maximum Allowable Cumulative Operating Hours While Burning Fuel Oil No. 2**
1	2,145	231
1 - 2	4,289	463
1 - 3	6,434	694
1 - 4	6,434	694
1 - 5	6,434	694
1 - 6	6,434	694
1 - 7	6,434	694
1 - 8	6,434	694
1 - 9	6,434	694
1 - 10	6,434	694
1 - 11	6,434	694
1 - 12	6,434	694

** the permittee may combust 1.37 additional hours of natural gas for every hour fuel oil not combusted, up to 7, 386 hours annually of natural gas combustion.

After the first 12 calendar months of operation following startup of emissions units B001, B002, B003, B004, B005, B006, B007, and B008, compliance with the annual operating hours limitation shall be based upon a rolling, 12-month summation of the operating hours.

6. The quality of number two fuel oil burned in this emissions unit shall have a combination of heat and sulfur content which is sufficient to comply with the allowable sulfur dioxide emission limitation.

   Compliance with the above mentioned specification shall be determined by using analytical results provided by the permittee or oil supplier for each shipment of oil. The permittee shall perform or require the supplier to perform the analyses for sulfur content and heat content in accordance with the following ASTM methods: ASTM method D4294, ASTM method D240, or ASTM method 6010 for sulfur content; and ASTM method D240 for heat content. The newest or most recent revisions to the applicable test method shall be used for analyses. Alternative, equivalent methods may be used upon written approval by the Ohio EPA District Office or local air agency.

7. The permittee shall burn only pipeline natural gas, and/or number two fuel oil in this emissions

unit.

III. Monitoring and/or Record keeping Requirements

1. The permittee shall maintain monthly records of the following information:

   a. The amount of number two fuel oil burned, in gallons.

   b. The amount of natural gas burned, in cubic feet.

   c. The summation of the operating hours from emissions units B001, B002, B003, B004, B005, B006, B007, and B008 combined, in hours /month when burning natural gas and/or when burning fuel oil no. 2.

   d. During the first twelve calendar months of operation following startup, the cumulative operating hours for each calendar month when burning natural gas and/or when burning fuel oil no. 2. Following the first twelve calendar months of operation following startup, the rolling, 12-month summation of the operating hours from emissions units B001, B002, B003, B004, B005, B006, B007, and B008 combined, in hours/rolling, 12-month period when burning natural gas and/or when burning fuel oil no. 2.

   e. The summation of the NOx emissions from emissions units B001, B002, B003, B004, B005, B006, B007, and B008 combined, in tons/month.

   f. During the first twelve calendar months of operation following startup, the cumulative NOx emissions for each calendar month. Following the first twelve calendar months of operation following startup, the rolling, 12-month summation of the NOx emissions from emissions units B001, B002, B003, B004, B005, B006, B007, and B008 combined, in tons/rolling, 12-month period.

   g. The summation of the CO emissions from emissions units B001, B002, B003, B004, B005, B006, B007, and B008 combined, in tons/month.

   h. During the first twelve calendar months of operation following startup, the cumulative CO emissions for each calendar month. Following the first twelve calendar months of operation following startup, the rolling, 12-month summation of the CO emissions from emissions units B001, B002, B003, B004, B005, B006, B007, and B008 combined, in tons/rolling, 12-month period.

   i. The summation of the SO2 emissions from emissions units B001, B002, B003, B004,

B005, B006, B007, and B008 combined, in tons/month.

j. During the first twelve calendar months of operation following startup, the cumulative SO2 emissions for each calendar month. Following the first twelve calendar months of operation following startup, The rolling, 12-month summation of the SO2 emissions from emissions units B001, B002, B003, B004, B005, B006, B007, and B008 combined, in tons/rolling, 12-month period.

k. The summation of the VOC emissions from emissions units B001, B002, B003, B004, B005, B006, B007, and B008 combined, in tons/month.

l. During the first twelve calendar months of operation following startup, the cumulative VOC emissions for each calendar month. Following the first twelve calendar months of operation following startup, The rolling, 12-month summation of the VOC emissions from emissions units B001, B002, B003, B004, B005, B006, B007, and B008 combined, in tons/rolling, 12-month period.

2. The permittee shall monitor the sulfur content of the fuel oil being fired in the turbine. The frequency of monitoring shall be determined as follows:

a. If the turbine is supplied fuel oil from a bulk storage tank, the values shall be determined on each occasion that fuel oil is transferred to the storage tank from any other source.

b. If the turbine is supplied its fuel oil without intermediate bulk storage the values shall be determined and recorded daily. Owners, operators or fuel vendors may develop custom fuel schedules for the determination of the values based on the design and operation of the affected facility and the characteristics of the fuel supply. These custom schedules shall be substantiated with data and must be approved by the Ohio EPA, Central Office before they can be used.

c. For each shipment of oil received for burning in this emissions unit, the permittee shall maintain records of the total quantity of oil received and the permittee's or oil supplier's analyses for sulfur content and heat content.

3. <u>Continuous NOx Monitoring</u>

a. Prior to the installation of the continuous NOx monitoring system, the permittee shall submit information detailing the proposed location of the sampling site in accordance with the siting requirements in 40 CFR Part 60, Appendix B, Performance Specification 6 for approval by the Ohio EPA, Central Office.

b. Within 60 days of the startup of this emissions unit, the permittee shall conduct certification tests of such equipment pursuant to ORC section 3704.03(I) and 40 CFR Part 60, Appendix B, Performance Specification 6, and/or 40 CFR Part 75. Personnel from the Regional Air Pollution Control Agency shall be notified 30

days prior to initiation of the applicable tests and shall be permitted to examine equipment and witness the certification tests. In accordance with OAC rule 3745-15-04, all copies of the test results shall be submitted to the Regional Air Pollution Control Agency within 30 days after the test is completed. Copies of the test results shall be sent to the Regional Air Pollution Control Agency and the Ohio EPA Central Office. Certification of the continuous NOx monitoring system shall be granted upon determination by the Ohio EPA Central Office that the system meets all requirements of ORC section 3704.03(I) and 40 CFR Part 60, Appendix B, Performance Specification 6 and/or 40 CFR Part 75.

c. The permittee shall operate and maintain existing equipment to continuously monitor and record NOx from this emissions unit in units of the applicable standard. Such continuous monitoring and recording equipment shall comply with the requirements specified in 40 CFR Part 60.13 and/or 40 CFR Part 75.

d. 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 units of the applicable standard in the appropriate averaging period (e.g., hourly), results of daily zero/span calibration checks, and magnitude of manual calibration adjustments.

e. Within 180 days of the effective date of this permit, the permittee shall develop 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 standard. 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 logbook dedicated to the continuous NOx monitoring system must be kept on site and available for inspection during regular office hours.

4. <u>Continuous CO Monitoring</u>

a. Prior to the installation of the continuous CO monitoring system, the permittee shall submit information detailing the proposed location of the sampling site in accordance with the siting requirements in 40 CFR Part 60, Appendix B, Performance Specification 4 and 6 for approval by the Ohio EPA, Central Office.

b. Within 60 days of the startup of this emissions unit, the permittee shall conduct certification tests of the continuous CO monitoring system pursuant to ORC section 3704.03(I), 40 CFR Part 60, Appendix B, Performance Specification 4

and 6. Personnel from the appropriate Ohio EPA District Office or local air agency shall be notified 30 days prior to initiation of the applicable tests and shall be permitted to examine equipment and witness the certification tests. In accordance with OAC rule 3745-15-04, all copies of the test results shall be submitted to the appropriate Ohio EPA District Office or local air agency within 30 days after the test is completed. Copies of the test results shall be sent to the appropriate Ohio EPA District Office or local air agency and the Ohio EPA, Central Office. Certification of the continuous CO monitoring system shall be granted upon determination by the Ohio EPA Central Office that the system meets all requirements of ORC section 3704.03(I) and 40 CFR Part 60, Appendix B, Performance Specification 4 and 6 and/or 40 CFR Part 75.

c. The permittee shall operate and maintain equipment to continuously monitor and record CO from this emissions unit in units of the applicable standard. Such continuous monitoring and recording equipment shall comply with the requirements specified in 40 CFR Part 60.13 and/or 40 CFR Part 75.

d. The permittee shall maintain records of all data obtained by the continuous CO monitoring system including, but not limited to, emissions of CO in units of the applicable standard in the appropriate averaging period (e.g., hourly), results of daily zero/span calibration checks, and magnitude of manual calibration adjustments.

e. Within 180 days of the effective date of this permit, the permittee shall develop a written quality assurance/quality control plan for the continuous CO monitoring system designed to ensure continuous valid and representative readings of CO. The plan shall follow the requirements of 40 CFR Part 60, Appendix F. The quality assurance/quality control plan and a logbook dedicated to the continuous CO monitoring system must be kept on site and available for inspection during regular office hours.

5. When the emissions unit is combusting natural gas or number two fuel oil and the nitrogen oxides continuous monitoring system is not operational, the permittee shall provide nitrogen oxide missing data pursuant to the provisions listed in 40 CFR Part 75.

6. For each day during which the permittee burns a fuel other than pipeline natural gas, and/or number two fuel oil, the permittee shall maintain a record of the type and quantity of fuel burned in this emissions unit.

IV. Reporting Requirements

1. The permittee shall submit quarterly reports which identify each period during which an exemption for ice-fog provided in 40 CFR 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. These reports shall be postmarked by April 30, July 30, October 30, and January 30 and shall cover the previous calendar quarter.

2. The permittee shall submit quarterly deviation reports to the Regional Air Pollution Control Agency that identify any exceedances of the following:

   a. For the first twelve months of operation following startup of these emissions units, the cumulative NOx, CO, SO2, and VOC emission rates from emissions units B001, B002, B003, B004, B005, B006, B007, and B008 combined.

   b. Beginning after the first twelve calendar months of operation following startup of these emissions units, the rolling, 12-month summation of the NOx, CO, SO2, and VOC emission limitations for emissions units B001, B002, B003, B004, B005, B006, B007, and B008 combined.

   c. Beginning after the first twelve calendar months of operation following startup of these emissions units B001, B002, B003, B004, B005, B006, B007, and B008, the rolling, 12-month operating hours limitations and, for the first 12 calendar months of operation following start up emissions units of B001, B002, B003, B004, B005, B006, B007, and B008, all exceedances of the maximum allowable cumulative operating hours levels.

   These reports shall be submitted in accordance with Section A.1. of the General Terms and Conditions of this permit.

3. The permittee shall submit, on a quarterly basis, copies of the permittee's or oil supplier's analyses for each shipment of number two fuel oil which is received for burning in this emissions unit. The permittee's or oil supplier's analyses shall document the sulfur content (percent) and heat content (Btu/gallon) for each shipment of oil. The following information shall also be included with the copies of the permittee's or oil supplier's analyses:

   a. The total quantity of oil received in each shipment (gallons).

   b. The weighted* average sulfur content (percent by weight) for the oil received during each calendar month.

   c. The weighted* average heat content (Btu/gallon) of the oil received during each calendar month.

   d. The weighted* average SO2 emission rate (lbs/mmBtu of actual heat input) of the oil combusted during each calendar month (the SO2 emission rate shall be calculated as specified in OAC rule 3745-18-04(F)).

   * In proportion to the quantity of oil received in each shipment during each calendar month.

4. Continuous NOx Emissions Monitoring

   a. Pursuant to OAC rules 3745-15-04, 3745-35-02, and ORC sections 3704.03(I) and 3704.031 and 40 CFR Parts 60.7 and 60.13(h), the permittee shall submit reports

within 30 days following the end of each calendar quarter to the appropriate Ohio EPA District Office or local air agency documenting the date, commencement and completion time, duration, magnitude, reason (if known), and corrective actions taken (if any), of all instances of NOx values in excess of the applicable limits specified in the terms and conditions of this permit (29.9 lbs/hour and 25 ppmvd at 15% oxygen when burning natural gas and 46.7 lbs/hour and 42 ppmvd at 15% oxygen when burning number two fuel 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 appropriate Ohio EPA District Office or local air agency documenting any continuous NO_X 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 emissions unit operating time during the reporting period and the date, time, reason, and corrective action(s) taken for each time period of emissions unit, control equipment, and/or monitoring system malfunctions. The total operating time of the emissions unit and the total operating time of the analyzer while the emissions unit was on line also shall be included in the quarterly report. These quarterly excess emission reports shall be submitted by January 30, April 30, July 30, and October 30 of each year and shall address the data obtained during the previous calendar quarter.

5. Continuous CO Emissions Monitoring

a. Pursuant to OAC rules 3745-15-04, 3745-35-02, and ORC sections 3704.03(I) and 3704.031 and 40 CFR Parts 60.7 and 60.13(h), the permittee shall submit reports within 30 days following the end of each calendar quarter to the appropriate Ohio EPA District Office or local air agency documenting the date, commencement and completion times, duration, magnitude, reason (if known), and corrective actions taken (if any) of all instances of CO values in excess of any applicable limits specified in the terms and conditions of this permit (73.5

lbs/hour when burning natural gas, and 33.4 lbs/hour when burning number two fuel oil). These reports shall also contain the total CO 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 appropriate Ohio EPA District Office or local air agency documenting any continuous CO 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 emissions unit operating time during the reporting period and the date, time, reason, and corrective action(s) taken for each time period of emissions unit, control equipment, and/or monitoring system malfunctions. The total operating time of the emissions unit and the total operating time of the analyzer while the emissions unit was on line shall also be included in the quarterly report. These quarterly excess emission reports shall be submitted by January 30, April 30, July 30, and October 30 of each year and shall address the data obtained during the previous calendar quarter.

6. Pursuant to NSPS, the permittee is hereby advised of the requirement to report the following at the appropriate times:

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

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

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

d. Date of performance testing (at least 30 days prior to testing).

Reports are to be sent to:

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

and

Regional Air Pollution Control Agency
451 W. Third Street
P.O. Box 972
Dayton, Ohio 45422

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

8. The permittee shall submit annual reports which specify the total particulate, SO2, OC, and VOC emissions from this emissions unit for the previous calendar year. These reports shall be submitted by January 31 of each year.

V. Testing Requirements

1. Compliance with the emission limitation(s) in Section A.I. of these terms and conditions shall be determined in accordance with the following method(s):

a. Emission Limitation -

120 TPY NOx as a rolling, 12-month summation combined from emissions units B001, B002, B003, B004, B005, B006, B007, and B008.

Applicable Compliance Method -

Compliance shall be based upon record keeping as specified in A.III.1. and shall be determined through the use of CEMs as specified in A.III.3.

The monthly NOx emissions shall be added to the total NOx emissions from the previous eleven months to determine the rolling, 12-month summation of NOx emissions.

b. Emission Limitation -

249 TPY CO as a rolling, 12-month summation combined from emissions units B001, B002, B003, B004, B005, B006, B007, and B008

Applicable Compliance Method -

Emissions Unit ID: **B001**

Compliance shall be based upon record keeping as specified in A.III.1. and shall be determined through the use of CEMs as specified in A.III.4.

The monthly CO emissions shall be added to the total CO emissions from the previous eleven months to determine the rolling, 12-month summation of CO emissions.

c. Emission Limitation -

5.7 TPY SO2 as a rolling, 12-month summation combined from emissions units B001, B002, B003, B004, B005, B006, B007, and B008

Applicable Compliance Method -

Compliance shall be based upon record keeping as specified in A.III.1. and shall be determined through a summation of the SO2 emissions from the burning of natural gas and number 2 fuel oil as follows:

i. The monthly SO2 emissions from the burning of natural gas shall be determined by multiplying the USEPA default value for pipeline natural gas (0.0006 lb SO2/mmBtu) by the combined actual heat input while burning of natural gas (mmBTU/month) in emissions units B001, B002, B003, B004, B005, B006, B007, and B008 and then divideing by 2,000 lbs/ton.

ii. The monthly SO2 emissions from the burning of number 2 fuel oil shall be determined by multiplying the operating hours while burning number 2 fuel oil for the month in emissions units B001, B002, B003, B004, B005,B006, B007, and B008 by the average percent sulfur of the fuel oil used during the period (or 0.05% sulfur) times the factor of 2 lbs of SO2 per lb of sulfur divided by the average heat content of the fuel burned during the period times the combined actual heat input while burning number 2 fuel oil in emissions units B001, B002, B003, B004, B005, B006, B007, and B008 (mmBTU/hr) and then divideing by 2,000 lbs/ton.

iii. The monthly SO2 emissions shall be added to the total SO2 emissions from the previous eleven months to determine the rolling, 12-month summation of SO2 emissions, using the USEPA default value for pipeline natural gas (0.0006 lb SO2/mmBtu) and fuel sampling analysis for fuel oil as determined in Section A.III.2.

d. Emission Limitation -

7.4 TPY VOC*** a rolling, 12-month summation combined from emissions units B001, B002, B003, B004, B005, B006, B007, and B008

Applicable Compliance Method -

Compliance shall be based upon record keeping as specified in A.III.1. and shall be determined through a summation of the VOC emissions from the burning of natural gas

and number 2 fuel oil as follows:

i. The VOC*** emissions from the burning of natural gas shall be determined by multiplying the operating hours while burning natural gas for the month in emissions units B001, B002, B003, B004, B005, B006, B007, and B008 by the average emission rate (lbs VOC/hour) derived from the stack test conducted in accordance with term A.V.2. that are operating during the month and dividing by 2,000 lbs/ton.

ii. The VOC*** emissions from the burning of number 2 fuel oil shall be determined by multiplying the operating hours while burning number 2 fuel oil for the month in emissions units B001, B002, B003, B004, B005,B006, B007, and B008 by the average emission rate (lbs VOC/hour) derived from the stack test conducted in accordance with term A.V.2. that are operating during the month and dividing by 2,000 lbs/ton.

iii. The monthly VOC*** emissions shall be added to the total VOC emissions from the previous eleven months to determine the rolling, 12-month summation of VOC emissions, using the average emission rates derived from the stack test conducted in accordance with term A.V.2.

e. Emission Limitation -

Sulfur content of oil shall be equal to or less than 0.05 percent by weight sulfur.

Applicable Compliance Method -

Compliance shall be based upon the fuel oil analysis requirement specified in A.II.6 and the record keeping requirements specified in A.III.2.

f. Emission Limitation -

0.040 lb particulate emissions/mmBtu actual heat input

Applicable Compliance Method -

Compliance shall be demonstrated by the manufacturer's guaranteed emissions data.

g. Emission Limitation -

NOx emissions shall not exceed 29.9 lbs/hour and 25 ppmvd at 15% oxygen, when firing natural gas, based on a one-hour average.

NOx emissions shall not exceed 46.7 lbs/hour and 42 ppmvd at 15% oxygen, when firing number two fuel oil, based on a one-hour average.

Applicable Compliance Method -

Compliance with the NOx emission and concentration limitations shall be based upon the continuous emissions monitoring requirement and the monitoring/record keeping required by this permit.

h. Emission Limitation -

73.5 lbs CO/hour, when firing natural gas
33.4 lbs CO/hour, when firing number two fuel oil

Applicable Compliance Method -

Compliance with the CO emission limitation shall be based upon the continuous emissions monitoring requirement and the monitoring/record keeping required by this permit.

i. Emission Limitation -

0.06 lb SO2/mmBtu actual heat input

Applicable Compliance Method -

When firing number two fuel oil, compliance shall be based upon the fuel analysis and record keeping requirements specified in A.II.6. and A.III.2. and the use of the equations specified in OAC rule 3745-18-04(F).

When firing natural gas, compliance with this limitation will be assumed due to the negligible percent sulfur, by weight, in the fuel. If required, the permittee shall perform or require the supplier to perform an analysis of the natural gas for sulfur content in accordance with the appropriate ASTM method (such as, ASTM method D3031), or an equivalent method as approved by the Director, in order to demonstrate compliance with this emission limitation using the appropriate equation specified in AP-42 Table 3.1-1 (10/96).

j. Emission Limitation -

0.18 lb/hour SO2, when firing natural gas.
14.7 lbs/hour SO2, when firing number two fuel oil.

Applicable Compliance Method -

When firing natural gas, compliance shall be based upon multiplying the USEPA default value for pipeline natural gas by the maximum heat input capacity of this emissions unit. When firing number two fuel oil, compliance shall be based upon the fuel analysis and record keeping requirements specified in A.II.6. and A.III.2. and shall be determined by multiplying the sulfur dioxide emissions in lb SO2/mmBtu by the maximum heat input capacity of this emissions unit.

k. Emission Limitation -

2 lbs/hour VOC***, when firing natural gas.
2.7 lbs/hour VOC***, when firing number two fuel oil.

Applicable Compliance Method -

Compliance shall be based upon stack testing as required in A.V.2.

l. Emission Limitation -

17 lbs/hour OC, when firing natural gas.
10.61 lbs/hour OC, when firing number two fuel oil.

Applicable Compliance Method -

Compliance shall be based upon the record keeping requirements specified in A.III.1. and by manufacturer's guaranteed emissions data.

m. Emission Limitation -

60.1 TPY organic emissions combined from emissions units B001, B002, B003, B004, B005, B006, B007, and B008

Applicable Compliance Method -

Compliance shall be based upon record keeping as specified in A.III.1. and the manufacturer's guaranteed emissions data.

n. Emission Limitation -

2 lbs/hour particulate emissions, when firing natural gas.

7 lbs/hour particulate emissions, when firing number 2 fuel oil.

Applicable Compliance Method -

Compliance shall be demonstrated by manufacturer's guaranteed emissions data.

o. Emission Limitation -

8.9 TPY particulate emissions combined from emissions units B001, B002, B003, B004, B005, B006, B007, and B008

Applicable Compliance Method -

Compliance shall be based upon record keeping as specified in A.III.1. and the manufacturer's guaranteed emissions data.

p. Emission Limitation -

10% opacity visible emissions, as a 6-minute average

Applicable Compliance Method -

Compliance shall be determined through visible emissions observations performed in accordance with OAC rule 3745-17-03(B)(1) using the methods and procedures specified in USEPA Reference Method 9.

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

a. The emission testing shall be conducted within 90 days following startup of the emissions unit.

b. The emission testing shall be conducted to demonstrate compliance with the VOC*** emission limitation~~s~~.

***the permittee has requested that if the average emissions rate (lbs/hour) derived from the stack test conducted in accordance with this term is less than the permit VOC allowable listed in term A.I.1., it may apply for an air permit to install modification to increase the hours of operation. The permittee realizes that this modification might trigger the requirement to secure either an administrative or a new air permit to install.

c. The following test method(s) shall be employed to demonstrate compliance with the allowable mass emission rate(s):

for VOC, Method 18 or 25 of 40 CFR Part 60, Appendix A.

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

d. The test(s) shall be conducted while the emissions unit is operating at or near its maximum capacity, unless otherwise specified or approved by the appropriate Ohio EPA District Office or local air agency.

Not later than 30 days prior to the proposed test date(s), the permittee shall submit an "Intent to Test" notification to the appropriate Ohio EPA District Office or local air agency. 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 test(s), and the person(s) who will be conducting the test(s). Failure to submit such notification for review and approval prior to the test(s) may result in the Ohio EPA District Office's or local air agency's refusal to accept the results of the emission test(s).

Personnel from the appropriate Ohio EPA District Office or local air agency shall be permitted to witness the test(s), examine the testing equipment, and acquire data and information necessary to ensure that the operation of the emissions unit and the testing procedures provide a valid characterization of the emissions from the emissions unit and/or the performance of the control equipment.

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

VI. Miscellaneous Requirements

None.

B. State Only Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

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

Operations, Property, and/or Equipment	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
Natural gas and number two fuel oil-fired, simple cycle, combustion turbine, having a nominal capacity of 269.71 mmBtu/hr (25 MW), controlled with a water injection nitrogen oxides reduction system; G1CT1 - Generator No. 1, Turbine No. 1	None	None

2. Additional Terms and Conditions

None.

II. Operational Restrictions

None.

III. Monitoring and/or Recordkeeping Requirements

None.

IV. Reporting Requirements

None.

V. Testing Requirements

None.

VI. Miscellaneous Requirements

None.

Emissions Unit ID: **B002**

Part III - SPECIAL TERMS AND CONDITIONS FOR SPECIFIC EMISSIONS UNIT(S) [Continued]

A. State and Federally Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

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

Operations, Property, and/or Equipment	Applicable Rules/Requirements	OAC rule 3745-31-05(A)(3)
Natural gas and number two fuel oil-fired, simple cycle, combustion turbine, having a nominal capacity of 269.71 mmBtu/hr (25 MW), controlled with a water injection nitrogen oxides reduction system; G1CT1 - Generator No. 1, Turbine No. 1	OAC rule 3745-31-05(D)	
	40 CFR Part 75	
	OAC rule 3745-17-11(B)(4)	

Emissions Unit ID: **B002**

	Applicable Emissions Limitations/Control Measures	
	120 TPY NOx as a rolling, 12-month summation combined from emissions units B001, B002, B003, B004, B005, B006, B007, and B008.	46.7 lbs/hour and 42 ppmvd at 15% oxygen when firing number two fuel oil, based on a one-hour average as determined through CEMs. 120 TPY NOx combined from B001, B002, B003, B004, B005, B006, B007, and B008.
	249 TPY CO as a rolling, 12-month summation combined from emissions units B001, B002, B003, B004, B005, B006, B007, and B008.	CO emissions shall not exceed 73.5 lbs/hour when firing natural gas. CO emissions shall not exceed 33.4 lbs/hour when firing number two fuel oil.
	5.7 TPY SO2 as a rolling, 12-month summation combined from emissions units B001, B002, B003, B004, B005, B006, B007, and B008.	0.06 lb SO2/mmBtu actual heat input The permittee shall combust oil that contains equal to or less than 0.05 percent by weight sulfur.
	7.4 TPY VOC*as a rolling, 12-month summation combined from emissions units B001, B002, B003, B004, B005, B006, B007, and B008.	0.18 lb/hour SO2 when firing natural gas. 14.7 lbs/hour SO2 when firing number two fuel oil.
	See Sections A.II.6 and A.III.2. for the specific monitoring and record keeping requirements and Section A.IV.3. for the specific reporting requirements.	2 lbs/hour VOC*, when firing natural gas. 2.7 lbs/hour VOC*, when firing number two fuel oil.
	0.040 lb particulate emissions/mmBtu actual heat input	17 lbs/hour OC, when firing natural gas. 10.61 lbs/hour OC, when firing number two fuel oil.
OAC rule 3745-17-07(A) OAC rule 3745-18-06(F) 40 CFR Part 60, Subpart GG OAC rule 3745-21-08(B) OAC rule 3745-23-06(B)	NOx emissions shall not exceed 29.9 lbs/hour and 25 ppmvd at 15% oxygen when firing natural gas, based on a one-hour average as determined through CEMs.	60.1 TPY OC emissions combined from emissions units B001, B002, B003, B004, B005, B006, B007, and B008. 2 lbs/hour particulate emissions when firing natural gas.
	NOx emissions shall not exceed	

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7 lbs/hour particulate emissions when firing number 2 fuel oil.

8.9 TPY particulate emissions combined from emissions units B001, B002, B003, B004, B005, B006, B007, and B008.

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

The requirements of this rule also include compliance with the requirements of OAC rule 3745-17-11(B)(4).

The emission limitations from these rules are less stringent than the emission limitations established pursuant to OAC rule 3745-31-05(A)(3) and 3745-31-05(D).

* the permittee has submitted emissions data that supports for purposes of avoiding both federal 112(g) and state of Ohio OAC rule 3745-31-28 regulations that all Hazardous Air Pollutants (HAPs) are less than VOC emissions.

2. Additional Terms and Conditions

2.a Compliance with OAC rule 3745-31-05(A)(3) shall be demonstrated through the use of water injection to reduce nitrogen oxides emissions to 25 ppmvd when burning natural gas and 42 ppmvd when burning number two fuel oil, and the 120 TPY NOx allowable.

2.b In lieu of the requirements of 40 CFR Part 60.334(a) (Subpart GG) to install and operate a continuous monitoring system to monitor the ratio of water to fuel being fired in each turbine, the permittee shall install and operate NOx continuous emissions monitoring system for this emissions unit.

2.c In lieu of monitoring the nitrogen content of the natural gas being fired in the turbine as required by 40 CFR 60 Subpart GG (section 60.334(b)), the permittee shall install and operate systems to continuously monitor and record emissions of NOx from this emissions unit.

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

2.e In lieu of the test methods and procedures required under 40 CFR Part 60.335, the permittee shall follow the testing and Continuous Emissions Monitoring requirements for this emissions unit in accordance with this permit.

2.f Start-up shall be defined as the time necessary to bring a turbine on line from a no load condition to synchronization and shall not exceed a maximum of 15 minutes. Shutdown periods shall not exceed 15 minutes.

II. Operational Restrictions

1. To ensure enforceability during the first twelve calendar months of operation following startup of emissions units B001, B002, B003, B004, B005, B006, B007, and B008, the permittee shall not exceed the cumulative NOx emission rates specified in the following table:

Month	Cumulative Summation of the NOx emission rate (TPY)
1	40
1 - 2	80
1 - 3	120
1 - 4	120
1 - 5	120

1 - 6	120
1 - 7	120
1 - 8	120
1 - 9	120
1 - 10	120
1 - 11	120
1 - 12	120

After the first 12 calendar months of operation following startup of emissions units B001, B002, B003, B004, B005, B006, B007, and B008, compliance with the annual emission limitation shall be based upon a rolling, 12-month summation.

2. To ensure enforceability during the first twelve calendar months of operation following startup of emissions units B001, B002, B003, B004, B005, B006, B007, and B008, the permittee shall not exceed the cumulative CO emission rates specified in the following table:

Month	Cumulative Summation of the CO emission rate (TPY)
1	83
1 - 2	166
1 - 3	249
1 - 4	249
1 - 5	249
1 - 6	249
1 - 7	249
1 - 8	249
1 - 9	249
1 - 10	249
1 - 11	249
1 - 12	249

After the first 12 calendar months of operation following startup of emissions units B001, B002, B003, B004, B005, B006, B007, and B008, compliance with the annual emission limitation shall be based upon a rolling, 12-month summation.

3. To ensure enforceability during the first twelve calendar months of operation following startup of emissions units B001, B002, B003, B004, B005, B006, B007, and B008, the permittee shall not exceed the cumulative SO2 emission rates specified in the following table:

Month	Cumulative Summation of the SO2 emission rate (TPY)
1	1.14
1 - 2	2.28
1 - 3	3.42

1 - 4	4.56
1 - 5	5.7
1 - 6	5.7
1 - 7	5.7
1 - 8	5.7
1 - 9	5.7
1 - 10	5.7
1 - 11	5.7
1 - 12	5.7

After the first 12 calendar months of operation following startup of emissions units B001, B002, B003, B004, B005, B006, B007, and B008, compliance with the annual emission limitation shall be based upon a rolling, 12-month summation.

4. To ensure enforceability during the first twelve calendar months of operation following startup of emissions units B001, B002, B003, B004, B005, B006, B007, and B008, the permittee shall not exceed the cumulative VOC emission rates specified in the following table:

Month	Cumulative Summation of the VOC emission rate (TPY)
1	2.5
1 - 2	4.9
1 - 3	7.4
1 - 4	7.4
1 - 5	7.4
1 - 6	7.4
1 - 7	7.4
1 - 8	7.4
1 - 9	7.4
1 - 10	7.4
1 - 11	7.4
1 - 12	7.4

After the first 12 calendar months of operation following startup of emissions units B001, B002, B003, B004, B005, B006, B007, and B008, compliance with the annual emission limitation shall be based upon a rolling, 12-month summation.

5. The maximum annual operating hours for emissions units B001, B002, B003, B004, B005, B006, B007, and B008 shall not exceed 6,434** while burning natural gas and 694** while burning fuel

oil no. 2., based upon a rolling, 12-month summation of the operating hours.

To ensure enforceability during the first twelve calendar months of operation following startup of emissions units B001, B002, B003, B004, B005, B006, B007, and B008, the permittee shall not exceed the cumulative operating hours levels specified in the following table:

Month	Maximum Allowable Cumulative Operating Hours While Burning Natural Gas**	Maximum Allowable Cumulative Operating Hours While Burning Fuel Oil No. 2**
1	2,145	231
1 - 2	4,289	463
1 - 3	6,434	694
1 - 4	6,434	694
1 - 5	6,434	694
1 - 6	6,434	694
1 - 7	6,434	694
1 - 8	6,434	694
1 - 9	6,434	694
1 - 10	6,434	694
1 - 11	6,434	694
1 - 12	6,434	694

** the permittee may combust 1.37 additional hours of natural gas for every hour fuel oil not combusted, up to 7, 386 hours annually of natural gas combustion.

After the first 12 calendar months of operation following startup of emissions units B001, B002, B003, B004, B005, B006, B007, and B008, compliance with the annual operating hours limitation shall be based upon a rolling, 12-month summation of the operating hours.

6. The quality of number two fuel oil burned in this emissions unit shall have a combination of heat and sulfur content which is sufficient to comply with the allowable sulfur dioxide emission limitation.

   Compliance with the above mentioned specification shall be determined by using analytical results provided by the permittee or oil supplier for each shipment of oil. The permittee shall perform or require the supplier to perform the analyses for sulfur content and heat content in accordance with the following ASTM methods: ASTM method D4294, ASTM method D240, or ASTM method 6010 for sulfur content; and ASTM method D240 for heat content. The newest or most recent revisions to the applicable test method shall be used for analyses. Alternative, equivalent methods may be used upon written approval by the Ohio EPA District Office or local air agency.

7. The permittee shall burn only pipeline natural gas, and/or number two fuel oil in this emissions

unit.

III. Monitoring and/or Record keeping Requirements

1. The permittee shall maintain monthly records of the following information:

   a. The amount of number two fuel oil burned, in gallons.

   b. The amount of natural gas burned, in cubic feet.

   c. The summation of the operating hours from emissions units B001, B002, B003, B004, B005, B006, B007, and B008 combined, in hours /month when burning natural gas and/or when burning fuel oil no. 2.

   d. During the first twelve calendar months of operation following startup, the cumulative operating hours for each calendar month when burning natural gas and/or when burning fuel oil no. 2. Following the first twelve calendar months of operation following startup, the rolling, 12-month summation of the operating hours from emissions units B001, B002, B003, B004, B005, B006, B007, and B008 combined, in hours/rolling, 12-month period when burning natural gas and/or when burning fuel oil no. 2.

   e. The summation of the NOx emissions from emissions units B001, B002, B003, B004, B005, B006, B007, and B008 combined, in tons/month.

   f. During the first twelve calendar months of operation following startup, the cumulative NOx emissions for each calendar month. Following the first twelve calendar months of operation following startup, the rolling, 12-month summation of the NOx emissions from emissions units B001, B002, B003, B004, B005, B006, B007, and B008 combined, in tons/rolling, 12-month period.

   g. The summation of the CO emissions from emissions units B001, B002, B003, B004, B005, B006, B007, and B008 combined, in tons/month.

   h. During the first twelve calendar months of operation following startup, the cumulative CO emissions for each calendar month. Following the first twelve calendar months of operation following startup, the rolling, 12-month summation of the CO emissions from emissions units B001, B002, B003, B004, B005, B006, B007, and B008 combined, in tons/rolling, 12-month period.

   i. The summation of the SO2 emissions from emissions units B001, B002, B003, B004,

B005, B006, B007, and B008 combined, in tons/month.

j. During the first twelve calendar months of operation following startup, the cumulative SO2 emissions for each calendar month. Following the first twelve calendar months of operation following startup, The rolling, 12-month summation of the SO2 emissions from emissions units B001, B002, B003, B004, B005, B006, B007, and B008 combined, in tons/rolling, 12-month period.

k. The summation of the VOC emissions from emissions units B001, B002, B003, B004, B005, B006, B007, and B008 combined, in tons/month.

l. During the first twelve calendar months of operation following startup, the cumulative VOC emissions for each calendar month. Following the first twelve calendar months of operation following startup, The rolling, 12-month summation of the VOC emissions from emissions units B001, B002, B003, B004, B005, B006, B007, and B008 combined, in tons/rolling, 12-month period.

2. The permittee shall monitor the sulfur content of the fuel oil being fired in the turbine. The frequency of monitoring shall be determined as follows:

a. If the turbine is supplied fuel oil from a bulk storage tank, the values shall be determined on each occasion that fuel oil is transferred to the storage tank from any other source.

b. If the turbine is supplied its fuel oil without intermediate bulk storage the values shall be determined and recorded daily. Owners, operators or fuel vendors may develop custom fuel schedules for the determination of the values based on the design and operation of the affected facility and the characteristics of the fuel supply. These custom schedules shall be substantiated with data and must be approved by the Ohio EPA, Central Office before they can be used.

c. For each shipment of oil received for burning in this emissions unit, the permittee shall maintain records of the total quantity of oil received and the permittee's or oil supplier's analyses for sulfur content and heat content.

3. <u>Continuous NOx Monitoring</u>

a. Prior to the installation of the continuous NOx monitoring system, the permittee shall submit information detailing the proposed location of the sampling site in accordance with the siting requirements in 40 CFR Part 60, Appendix B, Performance Specification 6 for approval by the Ohio EPA, Central Office.

b. Within 60 days of the startup of this emissions unit, the permittee shall conduct certification tests of such equipment pursuant to ORC section 3704.03(I) and 40 CFR Part 60, Appendix B, Performance Specification 6, and/or 40 CFR Part 75. Personnel from the Regional Air Pollution Control Agency shall be notified 30

days prior to initiation of the applicable tests and shall be permitted to examine equipment and witness the certification tests. In accordance with OAC rule 3745-15-04, all copies of the test results shall be submitted to the Regional Air Pollution Control Agency within 30 days after the test is completed. Copies of the test results shall be sent to the Regional Air Pollution Control Agency and the Ohio EPA Central Office. Certification of the continuous NOx monitoring system shall be granted upon determination by the Ohio EPA Central Office that the system meets all requirements of ORC section 3704.03(I) and 40 CFR Part 60, Appendix B, Performance Specification 6 and/or 40 CFR Part 75.

c. The permittee shall operate and maintain existing equipment to continuously monitor and record NOx from this emissions unit in units of the applicable standard. Such continuous monitoring and recording equipment shall comply with the requirements specified in 40 CFR Part 60.13 and/or 40 CFR Part 75.

d. 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 units of the applicable standard in the appropriate averaging period (e.g., hourly), results of daily zero/span calibration checks, and magnitude of manual calibration adjustments.

e. Within 180 days of the effective date of this permit, the permittee shall develop 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 standard. 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 logbook dedicated to the continuous NOx monitoring system must be kept on site and available for inspection during regular office hours.

4. Continuous CO Monitoring

   a. Prior to the installation of the continuous CO monitoring system, the permittee shall submit information detailing the proposed location of the sampling site in accordance with the siting requirements in 40 CFR Part 60, Appendix B, Performance Specification 4 and 6 for approval by the Ohio EPA, Central Office.

   b. Within 60 days of the startup of this emissions unit, the permittee shall conduct certification tests of the continuous CO monitoring system pursuant to ORC section 3704.03(I), 40 CFR Part 60, Appendix B, Performance Specification 4 and 6. Personnel from the appropriate Ohio EPA District Office or local air agency shall be notified 30 days prior to initiation of the applicable tests and shall be permitted to examine equipment and witness the certification tests. In accordance with OAC rule 3745-15-04, all copies of the test results shall be submitted to the appropriate Ohio EPA District Office or local air agency within 30 days after the test is completed. Copies of the test results shall be sent to the appropriate Ohio EPA District Office or local air agency and the Ohio EPA, Central Office. Certification of the continuous CO monitoring system shall be granted upon determination by the Ohio EPA Central Office that the system meets all requirements of ORC section 3704.03(I) and 40 CFR Part 60, Appendix B, Performance Specification 4 and 6 and/or 40 CFR Part 75.

   c. The permittee shall operate and maintain equipment to continuously monitor and record CO from this emissions unit in units of the applicable standard. Such continuous monitoring and recording equipment shall comply with the requirements specified in 40 CFR Part 60.13 and/or 40 CFR Part 75.

   d. The permittee shall maintain records of all data obtained by the continuous CO monitoring system including, but not limited to, emissions of CO in units of the applicable standard in the appropriate averaging period (e.g., hourly), results of daily zero/span calibration checks, and magnitude of manual calibration adjustments.

   e. Within 180 days of the effective date of this permit, the permittee shall develop a written quality assurance/quality control plan for the continuous CO monitoring system designed to ensure continuous valid and representative readings of CO. The plan shall follow the requirements of 40 CFR Part 60, Appendix F. The quality assurance/quality control plan and a logbook dedicated to the continuous CO monitoring system must be kept on site and available for inspection during regular office hours.

5. When the emissions unit is combusting natural gas or number two fuel oil and the nitrogen oxides continuous monitoring system is not operational, the permittee shall provide nitrogen oxide missing data pursuant to the provisions listed in 40 CFR Part 75.

6. For each day during which the permittee burns a fuel other than pipeline natural gas, and/or number two fuel oil, the permittee shall maintain a record of the type and quantity of fuel burned

in this emissions unit.

IV. Reporting Requirements

1. The permittee shall submit quarterly reports which identify each period during which an exemption for ice-fog provided in 40 CFR 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. These reports shall be postmarked by April 30, July 30, October 30, and January 30 and shall cover the previous calendar quarter.

2. The permittee shall submit quarterly deviation reports to the Regional Air Pollution Control Agency that identify any exceedances of the following:

   a. For the first twelve months of operation following startup of these emissions units, the cumulative NOx, CO, SO2, and VOC emission rates from emissions units B001, B002, B003, B004, B005, B006, B007, and B008 combined.

   b. Beginning after the first twelve calendar months of operation following startup of these emissions units, the rolling, 12-month summation of the NOx, CO, SO2, and VOC emission limitations for emissions units B001, B002, B003, B004, B005, B006, B007, and B008 combined.

   c. Beginning after the first twelve calendar months of operation following startup of these emissions units B001, B002, B003, B004, B005, B006, B007, and B008, the rolling, 12-month operating hours limitations and, for the first 12 calendar months of operation following start up emissions units of B001, B002, B003, B004, B005, B006, B007, and B008, all exceedances of the maximum allowable cumulative operating hours levels.

   These reports shall be submitted in accordance with Section A.1. of the General Terms and Conditions of this permit.

3. The permittee shall submit, on a quarterly basis, copies of the permittee's or oil supplier's analyses for each shipment of number two fuel oil which is received for burning in this emissions unit. The permittee's or oil supplier's analyses shall document the sulfur content (percent) and heat content (Btu/gallon) for each shipment of oil. The following information shall also be included with the copies of the permittee's or oil supplier's analyses:

   a. The total quantity of oil received in each shipment (gallons).

   b. The weighted* average sulfur content (percent by weight) for the oil received during each calendar month.

c. The weighted* average heat content (Btu/gallon) of the oil received during each calendar month.

d. The weighted* average SO2 emission rate (lbs/mmBtu of actual heat input) of the oil combusted during each calendar month (the SO2 emission rate shall be calculated as specified in OAC rule 3745-18-04(F)).

* In proportion to the quantity of oil received in each shipment during each calendar month.

4. Continuous NOx Emissions Monitoring

a. Pursuant to OAC rules 3745-15-04, 3745-35-02, and ORC sections 3704.03(I) and 3704.031 and 40 CFR Parts 60.7 and 60.13(h), the permittee shall submit reports within 30 days following the end of each calendar quarter to the appropriate Ohio EPA District Office or local air agency documenting the date, commencement and completion time, duration, magnitude, reason (if known), and corrective actions taken (if any), of all instances of NOx values in excess of the applicable limits specified in the terms and conditions of this permit (29.9 lbs/hour and 25 ppmvd at 15% oxygen when burning natural gas and 46.7 lbs/hour and 42 ppmvd at 15% oxygen when burning number two fuel 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 appropriate Ohio EPA District Office or local air agency documenting any continuous NO_X 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 emissions unit operating time during the reporting period and the date, time, reason, and corrective action(s) taken for each time period of emissions unit, control equipment, and/or monitoring system malfunctions. The total operating time of the emissions unit and the total operating time of the analyzer while the emissions unit was on line also shall be included in the quarterly report. These quarterly excess emission reports shall be submitted by January 30, April 30, July 30, and October 30 of each year and shall address the data obtained during the previous calendar quarter.

5. Continuous CO Emissions Monitoring

a. Pursuant to OAC rules 3745-15-04, 3745-35-02, and ORC sections 3704.03(I) and 3704.031 and 40 CFR Parts 60.7 and 60.13(h), the permittee shall submit reports within 30 days following the end of each calendar quarter to the appropriate Ohio EPA District Office or local air agency documenting the date, commencement and completion times, duration, magnitude, reason (if known), and corrective actions taken (if any) of all instances of CO values in excess of any applicable limits specified in the terms and conditions of this permit (73.5 lbs/hour when burning natural gas, and 33.4 lbs/hour when burning number two fuel oil). These reports shall also contain the total CO 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 appropriate Ohio EPA District Office or local air agency documenting any continuous CO 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 emissions unit operating time during the reporting period and the date, time, reason, and corrective action(s) taken for each time period of emissions unit, control equipment, and/or monitoring system malfunctions. The total operating time of the emissions unit and the total operating time of the analyzer while the emissions unit was on line shall also be included in the quarterly report. These quarterly excess emission reports shall be submitted by January 30, April 30, July 30, and October 30 of each year and shall address the data obtained during the previous calendar quarter.

6. Pursuant to NSPS, the permittee is hereby advised of the requirement to report the following at the appropriate times:

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

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

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

d. Date of performance testing (at least 30 days prior to testing).

Reports are to be sent to:

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

and

Regional Air Pollution Control Agency
451 W. Third Street
P.O. Box 972
Dayton, Ohio 45422

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

8. The permittee shall submit annual reports which specify the total particulate, SO2, OC, and VOC emissions from this emissions unit for the previous calendar year. These reports shall be submitted by January 31 of each year.

V. Testing Requirements

1. Compliance with the emission limitation(s) in Section A.I. of these terms and conditions shall be determined in accordance with the following method(s):

   a. Emission Limitation -

      120 TPY NOx as a rolling, 12-month summation combined from emissions units B001, B002, B003, B004, B005, B006, B007, and B008.

      Applicable Compliance Method -

      Compliance shall be based upon record keeping as specified in A.III.1. and shall be determined through the use of CEMs as specified in A.III.3.

      The monthly NOx emissions shall be added to the total NOx emissions from the previous eleven months to determine the rolling, 12-month summation of NOx emissions.

   b. Emission Limitation -

249 TPY CO as a rolling, 12-month summation combined from emissions units B001, B002, B003, B004, B005, B006, B007, and B008

Applicable Compliance Method -

Compliance shall be based upon record keeping as specified in A.III.1. and shall be determined through the use of CEMs as specified in A.III.4.

The monthly CO emissions shall be added to the total CO emissions from the previous eleven months to determine the rolling, 12-month summation of CO emissions.

c. Emission Limitation -

5.7 TPY SO2 as a rolling, 12-month summation combined from emissions units B001, B002, B003, B004, B005, B006, B007, and B008

Applicable Compliance Method -

Compliance shall be based upon record keeping as specified in A.III.1. and shall be determined through a summation of the SO2 emissions from the burning of natural gas and number 2 fuel oil as follows:

i. The monthly SO2 emissions from the burning of natural gas shall be determined by multiplying the USEPA default value for pipeline natural gas (0.0006 lb SO2/mmBtu) by the combined actual heat input while burning of natural gas (mmBTU/month) in emissions units B001, B002, B003, B004, B005, B006, B007, and B008 and then divideing by 2,000 lbs/ton.

ii. The monthly SO2 emissions from the burning of number 2 fuel oil shall be determined by multiplying the operating hours while burning number 2 fuel oil for the month in emissions units B001, B002, B003, B004, B005,B006, B007, and B008 by the average percent sulfur of the fuel oil used during the period (or 0.05% sulfur) times the factor of 2 lbs of SO2 per lb of sulfur divided by the average heat content of the fuel burned during the period times the combined actual heat input while burning number 2 fuel oil in emissions units B001, B002, B003, B004, B005, B006, B007, and B008 (mmBTU/hr) and then divideing by 2,000 lbs/ton.

iii. The monthly SO2 emissions shall be added to the total SO2 emissions from the previous eleven months to determine the rolling, 12-month summation of SO2 emissions, using the USEPA default value for pipeline natural gas (0.0006 lb SO2/mmBtu) and fuel sampling analysis for fuel oil as determined in Section A.III.2.

d. Emission Limitation -

7.4 TPY VOC*** a rolling, 12-month summation combined from emissions units B001, B002, B003, B004, B005, B006, B007, and B008

Applicable Compliance Method -

Compliance shall be based upon record keeping as specified in A.III.1. and shall be determined through a summation of the VOC emissions from the burning of natural gas and number 2 fuel oil as follows:

i. The VOC*** emissions from the burning of natural gas shall be determined by multiplying the operating hours while burning natural gas for the month in emissions units B001, B002, B003, B004, B005, B006, B007, and B008 by the

average emission rate (lbs VOC/hour) derived from the stack test conducted in accordance with term A.V.2. that are operating during the month and dividing by 2,000 lbs/ton.

ii. The VOC*** emissions from the burning of number 2 fuel oil shall be determined by multiplying the operating hours while burning number 2 fuel oil for the month in emissions units B001, B002, B003, B004, B005,B006, B007, and B008 by the average emission rate (lbs VOC/hour) derived from the stack test conducted in accordance with term A.V.2. that are operating during the month and dividing by 2,000 lbs/ton.

iii. The monthly VOC*** emissions shall be added to the total VOC emissions from the previous eleven months to determine the rolling, 12-month summation of VOC emissions, using the average emission rates derived from the stack test conducted in accordance with term A.V.2.

e. Emission Limitation -

Sulfur content of oil shall be equal to or less than 0.05 percent by weight sulfur.

Applicable Compliance Method -

Compliance shall be based upon the fuel oil analysis requirement specified in A.II.6 and the record keeping requirements specified in A.III.2.

f. Emission Limitation -

0.040 lb particulate emissions/mmBtu actual heat input

Applicable Compliance Method -

Compliance shall be demonstrated by the manufacturer's guaranteed emissions data.

g. Emission Limitation -

NOx emissions shall not exceed 29.9 lbs/hour and 25 ppmvd at 15% oxygen, when firing natural gas, based on a one-hour average.

NOx emissions shall not exceed 46.7 lbs/hour and 42 ppmvd at 15% oxygen, when firing number two fuel oil, based on a one-hour average.

Applicable Compliance Method -

Compliance with the NOx emission and concentration limitations shall be based upon the continuous emissions monitoring requirement and the monitoring/record keeping required by this permit.

h. Emission Limitation -

73.5 lbs CO/hour, when firing natural gas
33.4 lbs CO/hour, when firing number two fuel oil

Applicable Compliance Method -

Compliance with the CO emission limitation shall be based upon the continuous emissions monitoring requirement and the monitoring/record keeping required by this permit.

i. Emission Limitation -

0.06 lb SO2/mmBtu actual heat input

Applicable Compliance Method -

When firing number two fuel oil, compliance shall be based upon the fuel analysis and record keeping requirements specified in A.II.6. and A.III.2. and the use of the equations specified in OAC rule 3745-18-04(F).

When firing natural gas, compliance with this limitation will be assumed due to the negligible percent sulfur, by weight, in the fuel. If required, the permittee shall perform or require the supplier to perform an analysis of the natural gas for sulfur content in accordance with the appropriate ASTM method (such as, ASTM method D3031), or an equivalent method as approved by the Director, in order to demonstrate compliance with this emission limitation using the appropriate equation specified in AP-42 Table 3.1-1 (10/96).

j. Emission Limitation -

0.18 lb/hour SO2, when firing natural gas.
14.7 lbs/hour SO2, when firing number two fuel oil.

Applicable Compliance Method -

When firing natural gas, compliance shall be based upon multiplying the USEPA default value for pipeline natural gas by the maximum heat input capacity of this emissions unit. When firing number two fuel oil, compliance shall be based upon the fuel analysis and record keeping requirements specified in A.II.6. and A.III.2. and shall be determined by

multiplying the sulfur dioxide emissions in lb SO2/mmBtu by the maximum heat input capacity of this emissions unit.

k. Emission Limitation -

2 lbs/hour VOC***, when firing natural gas.
2.7 lbs/hour VOC***, when firing number two fuel oil.

Applicable Compliance Method -

Compliance shall be based upon stack testing as required in A.V.2.

l. Emission Limitation -

17 lbs/hour OC, when firing natural gas.
10.61 lbs/hour OC, when firing number two fuel oil.

Applicable Compliance Method -

Compliance shall be based upon the record keeping requirements specified in A.III.1. and by manufacturer's guaranteed emissions data.

m. Emission Limitation -

60.1 TPY organic emissions combined from emissions units B001, B002, B003, B004, B005, B006, B007, and B008

Applicable Compliance Method -

Compliance shall be based upon record keeping as specified in A.III.1. and the manufacturer's guaranteed emissions data.

n. Emission Limitation -

2 lbs/hour particulate emissions, when firing natural gas.
7 lbs/hour particulate emissions, when firing number 2 fuel oil.

Applicable Compliance Method -

Compliance shall be demonstrated by manufacturer's guaranteed emissions data.

o. Emission Limitation -

8.9 TPY particulate emissions combined from emissions units B001, B002, B003, B004, B005, B006, B007, and B008

Applicable Compliance Method -

Compliance shall be based upon record keeping as specified in A.III.1. and the manufacturer's guaranteed emissions data.

p. Emission Limitation -

10% opacity visible emissions, as a 6-minute average

Applicable Compliance Method -

Compliance shall be determined through visible emissions observations performed in accordance with OAC rule 3745-17-03(B)(1) using the methods and procedures specified in USEPA Reference Method 9.

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

a. The emission testing shall be conducted within 90 days following startup of the emissions unit.

b. The emission testing shall be conducted to demonstrate compliance with the VOC*** emission limitation~~s~~.

***the permittee has requested that if the average emissions rate (lbs/hour) derived from the stack test conducted in accordance with this term is less than the permit VOC allowable listed in term A.I.1., it may apply for an air permit to install modification to increase the hours of operation. The permittee realizes that this modification might trigger the requirement to secure either an administrative or a new air permit to install.

c. The following test method(s) shall be employed to demonstrate compliance with the allowable mass emission rate(s):

for VOC, Method 18 or 25 of 40 CFR Part 60, Appendix A.

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

d. The test(s) shall be conducted while the emissions unit is operating at or near its maximum capacity, unless otherwise specified or approved by the appropriate Ohio EPA District Office or local air agency.

Not later than 30 days prior to the proposed test date(s), the permittee shall submit an "Intent to Test" notification to the appropriate Ohio EPA District Office or local air agency. 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 test(s), and the person(s) who will be conducting the test(s). Failure to submit such notification for review and approval prior to the test(s) may result in the Ohio EPA District Office's or local air agency's refusal to accept the results of the emission test(s).

Personnel from the appropriate Ohio EPA District Office or local air agency shall be permitted to witness the test(s), examine the testing equipment, and acquire data and information necessary to ensure that the operation of the emissions unit and the testing procedures provide a valid characterization of the emissions from the emissions unit and/or the performance of the control equipment.

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

VI. Miscellaneous Requirements

None.

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B. State Only Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

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

Operations, Property, and/or Equipment	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
Natural gas and number two fuel oil-fired, simple cycle, combustion turbine, having a nominal capacity of 269.71 mmBtu/hr (25 MW), controlled with a water injection nitrogen oxides reduction system; G1CT1 - Generator No. 1, Turbine No. 1	None	None

2. Additional Terms and Conditions

None.

II. Operational Restrictions

None.

III. Monitoring and/or Recordkeeping Requirements

None.

IV. Reporting Requirements

None.

V. Testing Requirements

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None.

March 21, 2000

VI. Miscellaneous Requirements

None.

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Part III - SPECIAL TERMS AND CONDITIONS FOR SPECIFIC EMISSIONS UNIT(S) [Continued]

A. State and Federally Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

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

Operations, Property, and/or Equipment	Applicable Rules/Requirements	
Natural gas and number two fuel oil-fired, simple cycle, combustion turbine, having a nominal capacity of 269.71 mmBtu/hr (25 MW), controlled with a water injection nitrogen oxides reduction system; G1CT1 - Generator No. 1, Turbine No. 1	OAC rule 3745-31-05(D)	OAC rule 3745-17-11(B)(4)
		OAC rule 3745-31-05(A)(3)
	40 CFR Part 75	

Emissions Unit ID: **B003**

	Applicable Emissions Limitations/Control Measures
OAC rule 3745-17-07(A) OAC rule 3745-18-06(F) 40 CFR Part 60, Subpart GG OAC rule 3745-21-08(B) OAC rule 3745-23-06(B)	120 TPY NOx as a rolling, 12-month summation combined from emissions units B001, B002, B003, B004, B005, B006, B007, and B008. 249 TPY CO as a rolling, 12-month summation combined from emissions units B001, B002, B003, B004, B005, B006, B007, and B008. 5.7 TPY SO2 as a rolling, 12-month summation combined from emissions units B001, B002, B003, B004, B005, B006, B007, and B008. 7.4 TPY VOC*as a rolling, 12-month summation combined from emissions units B001, B002, B003, B004, B005, B006, B007, and B008. See Sections A.II.6 and A.III.2. for the specific monitoring and record keeping requirements and Section A.IV.3. for the specific reporting requirements. 0.040 lb particulate emissions/mmBtu actual heat input NOx emissions shall not exceed 29.9 lbs/hour and 25 ppmvd at 15% oxygen when firing natural gas, based on a one-hour average as determined through CEMs. NOx emissions shall not exceed 46.7 lbs/hour and 42 ppmvd at 15% oxygen when firing number two fuel oil, based on a one-hour average as determined through CEMs.

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120 TPY NOx combined from B001, B002, B003, B004, B005, B006, B007, and B008.

CO emissions shall not exceed 73.5 lbs/hour when firing natural gas.

CO emissions shall not exceed 33.4 lbs/hour when firing number two fuel oil.

0.06 lb SO2/mmBtu actual heat input

The permittee shall combust oil that contains equal to or less than 0.05 percent by weight sulfur.

0.18 lb/hour SO2 when firing natural gas.

14.7 lbs/hour SO2 when firing number two fuel oil.

2 lbs/hour VOC*, when firing natural gas.

2.7 lbs/hour VOC*, when firing number two fuel oil.

17 lbs/hour OC, when firing natural gas.

10.61 lbs/hour OC, when firing number two fuel oil.

60.1 TPY OC emissions combined from emissions units B001, B002, B003, B004, B005, B006, B007, and B008.

2 lbs/hour particulate emissions when firing natural gas.

7 lbs/hour particulate emissions when firing number 2 fuel oil.

8.9 TPY particulate emissions combined from emissions units B001, B002, B003, B004, B005, B006, B007, and B008.

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

The requirements of this rule also include compliance with the requirements of OAC rule 3745-17-11(B)(4).

The emission limitations from these rules are less stringent than the emission limitations established pursuant to OAC rule 3745-31-05(A)(3) and 3745-31-05(D).

* the permittee has submitted emissions data that supports for purposes of avoiding both federal 112(g) and state of Ohio OAC rule 3745-31-28 regulations that all Hazardous Air Pollutants (HAPs) are less than VOC emissions.

2. Additional Terms and Conditions

2.a Compliance with OAC rule 3745-31-05(A)(3) shall be demonstrated through the use of water injection to reduce nitrogen oxides emissions to 25 ppmvd when burning natural gas and 42 ppmvd when burning number two fuel oil, and the 120 TPY NOx allowable.

2.b In lieu of the requirements of 40 CFR Part 60.334(a) (Subpart GG) to install and operate a continuous monitoring system to monitor the ratio of water to fuel being fired in each turbine, the permittee shall install and operate NOx continuous emissions monitoring system for this emissions unit.

2.c In lieu of monitoring the nitrogen content of the natural gas being fired in the turbine as required by 40 CFR 60 Subpart GG (section 60.334(b)), the permittee shall install and operate systems to continuously monitor and record emissions of NOx from this emissions unit.

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

2.e In lieu of the test methods and procedures required under 40 CFR Part 60.335, the permittee shall follow the testing and Continuous Emissions Monitoring requirements for this emissions unit in accordance with this permit.

2.f Start-up shall be defined as the time necessary to bring a turbine on line from a no load condition to synchronization and shall not exceed a maximum of 15 minutes. Shutdown periods shall not exceed 15 minutes.

II. Operational Restrictions

1. To ensure enforceability during the first twelve calendar months of operation following startup of emissions units B001, B002, B003, B004, B005, B006, B007, and B008, the permittee shall not exceed the cumulative NOx emission rates specified in the following table:

Month	Cumulative Summation of the NOx emission rate (TPY)
1	40
1 - 2	80
1 - 3	120
1 - 4	120
1 - 5	120

1 - 6	120
1 - 7	120
1 - 8	120
1 - 9	120
1 - 10	120
1 - 11	120
1 - 12	120

After the first 12 calendar months of operation following startup of emissions units B001, B002, B003, B004, B005, B006, B007, and B008, compliance with the annual emission limitation shall be based upon a rolling, 12-month summation.

2. To ensure enforceability during the first twelve calendar months of operation following startup of emissions units B001, B002, B003, B004, B005, B006, B007, and B008, the permittee shall not exceed the cumulative CO emission rates specified in the following table:

Month	Cumulative Summation of the CO emission rate (TPY)
1	83
1 - 2	166
1 - 3	249
1 - 4	249
1 - 5	249
1 - 6	249
1 - 7	249
1 - 8	249
1 - 9	249
1 - 10	249
1 - 11	249
1 - 12	249

After the first 12 calendar months of operation following startup of emissions units B001, B002, B003, B004, B005, B006, B007, and B008, compliance with the annual emission limitation shall be based upon a rolling, 12-month summation.

3. To ensure enforceability during the first twelve calendar months of operation following startup of emissions units B001, B002, B003, B004, B005, B006, B007, and B008, the permittee shall not exceed the cumulative SO2 emission rates specified in the following table:

Month	Cumulative Summation of the SO2 emission rate (TPY)
1	1.14
1 - 2	2.28
1 - 3	3.42

1 - 4	4.56
1 - 5	5.7
1 - 6	5.7
1 - 7	5.7
1 - 8	5.7
1 - 9	5.7
1 - 10	5.7
1 - 11	5.7
1 - 12	5.7

After the first 12 calendar months of operation following startup of emissions units B001, B002, B003, B004, B005, B006, B007, and B008, compliance with the annual emission limitation shall be based upon a rolling, 12-month summation.

4. To ensure enforceability during the first twelve calendar months of operation following startup of emissions units B001, B002, B003, B004, B005, B006, B007, and B008, the permittee shall not exceed the cumulative VOC emission rates specified in the following table:

Month	Cumulative Summation of the VOC emission rate (TPY)
1	2.5
1 - 2	4.9
1 - 3	7.4
1 - 4	7.4
1 - 5	7.4
1 - 6	7.4
1 - 7	7.4
1 - 8	7.4
1 - 9	7.4
1 - 10	7.4
1 - 11	7.4
1 - 12	7.4

After the first 12 calendar months of operation following startup of emissions units B001, B002, B003, B004, B005, B006, B007, and B008, compliance with the annual emission limitation shall be based upon a rolling, 12-month summation.

5. The maximum annual operating hours for emissions units B001, B002, B003, B004, B005, B006, B007, and B008 shall not exceed 6,434** while burning natural gas and 694** while burning fuel

oil no. 2., based upon a rolling, 12-month summation of the operating hours.

To ensure enforceability during the first twelve calendar months of operation following startup of emissions units B001, B002, B003, B004, B005, B006, B007, and B008, the permittee shall not exceed the cumulative operating hours levels specified in the following table:

Month	Maximum Allowable Cumulative Operating Hours While Burning Natural Gas**	Maximum Allowable Cumulative Operating Hours While Burning Fuel Oil No. 2**
1	2,145	231
1 - 2	4,289	463
1 - 3	6,434	694
1 - 4	6,434	694
1 - 5	6,434	694
1 - 6	6,434	694
1 - 7	6,434	694
1 - 8	6,434	694
1 - 9	6,434	694
1 - 10	6,434	694
1 - 11	6,434	694
1 - 12	6,434	694

** the permittee may combust 1.37 additional hours of natural gas for every hour fuel oil not combusted, up to 7, 386 hours annually of natural gas combustion.

After the first 12 calendar months of operation following startup of emissions units B001, B002, B003, B004, B005, B006, B007, and B008, compliance with the annual operating hours limitation shall be based upon a rolling, 12-month summation of the operating hours.

6. The quality of number two fuel oil burned in this emissions unit shall have a combination of heat and sulfur content which is sufficient to comply with the allowable sulfur dioxide emission limitation.

Compliance with the above mentioned specification shall be determined by using analytical results provided by the permittee or oil supplier for each shipment of oil. The permittee shall perform or require the supplier to perform the analyses for sulfur content and heat content in accordance with

the following ASTM methods: ASTM method D4294, ASTM method D240, or ASTM method 6010 for sulfur content; and ASTM method D240 for heat content. The newest or most recent revisions to the applicable test method shall be used for analyses. Alternative, equivalent methods may be used upon written approval by the Ohio EPA District Office or local air agency.

7. The permittee shall burn only pipeline natural gas, and/or number two fuel oil in this emissions unit.

III. Monitoring and/or Record keeping Requirements

1. The permittee shall maintain monthly records of the following information:

   a. The amount of number two fuel oil burned, in gallons.

   b. The amount of natural gas burned, in cubic feet.

   c. The summation of the operating hours from emissions units B001, B002, B003, B004, B005, B006, B007, and B008 combined, in hours /month when burning natural gas and/or when burning fuel oil no. 2.

   d. During the first twelve calendar months of operation following startup, the cumulative operating hours for each calendar month when burning natural gas and/or when burning fuel oil no. 2. Following the first twelve calendar months of operation following startup, the rolling, 12-month summation of the operating hours from emissions units B001, B002, B003, B004, B005, B006, B007, and B008 combined, in hours/rolling, 12-month period when burning natural gas and/or when burning fuel oil no. 2.

   e. The summation of the NOx emissions from emissions units B001, B002, B003, B004, B005, B006, B007, and B008 combined, in tons/month.

   f. During the first twelve calendar months of operation following startup, the cumulative NOx emissions for each calendar month. Following the first twelve calendar months of operation following startup, the rolling, 12-month summation of the NOx emissions from emissions units B001, B002, B003, B004, B005, B006, B007, and B008 combined, in tons/rolling, 12-month period.

   g. The summation of the CO emissions from emissions units B001, B002, B003, B004, B005, B006, B007, and B008 combined, in tons/month.

   h. During the first twelve calendar months of operation following startup, the cumulative CO emissions for each calendar month. Following the first twelve calendar months of operation following startup, the rolling, 12-month summation of the CO emissions from emissions units B001, B002, B003, B004, B005, B006, B007, and B008 combined, in tons/rolling, 12-month period.

   i. The summation of the SO2 emissions from emissions units B001, B002, B003, B004,

B005, B006, B007, and B008 combined, in tons/month.

j. During the first twelve calendar months of operation following startup, the cumulative SO2 emissions for each calendar month. Following the first twelve calendar months of operation following startup, The rolling, 12-month summation of the SO2 emissions from emissions units B001, B002, B003, B004, B005, B006, B007, and B008 combined, in tons/rolling, 12-month period.

k. The summation of the VOC emissions from emissions units B001, B002, B003, B004, B005, B006, B007, and B008 combined, in tons/month.

l. During the first twelve calendar months of operation following startup, the cumulative VOC emissions for each calendar month. Following the first twelve calendar months of operation following startup, The rolling, 12-month summation of the VOC emissions from emissions units B001, B002, B003, B004, B005, B006, B007, and B008 combined, in tons/rolling, 12-month period.

2. The permittee shall monitor the sulfur content of the fuel oil being fired in the turbine. The frequency of monitoring shall be determined as follows:

a. If the turbine is supplied fuel oil from a bulk storage tank, the values shall be determined on each occasion that fuel oil is transferred to the storage tank from any other source.

b. If the turbine is supplied its fuel oil without intermediate bulk storage the values shall be determined and recorded daily. Owners, operators or fuel vendors may develop custom fuel schedules for the determination of the values based on the design and operation of the affected facility and the characteristics of the fuel supply. These custom schedules shall be substantiated with data and must be approved by the Ohio EPA, Central Office before they can be used.

c. For each shipment of oil received for burning in this emissions unit, the permittee shall maintain records of the total quantity of oil received and the permittee's or oil supplier's analyses for sulfur content and heat content.

3. <u>Continuous NOx Monitoring</u>

a. Prior to the installation of the continuous NOx monitoring system, the permittee shall submit information detailing the proposed location of the sampling site in accordance with the siting requirements in 40 CFR Part 60, Appendix B,

Performance Specification 6 for approval by the Ohio EPA, Central Office.

b. Within 60 days of the startup of this emissions unit, the permittee shall conduct certification tests of such equipment pursuant to ORC section 3704.03(I) and 40 CFR Part 60, Appendix B, Performance Specification 6, and/or 40 CFR Part 75. Personnel from the Regional Air Pollution Control Agency shall be notified 30 days prior to initiation of the applicable tests and shall be permitted to examine equipment and witness the certification tests. In accordance with OAC rule 3745-15-04, all copies of the test results shall be submitted to the Regional Air Pollution Control Agency within 30 days after the test is completed. Copies of the test results shall be sent to the Regional Air Pollution Control Agency and the Ohio EPA Central Office. Certification of the continuous NOx monitoring system shall be granted upon determination by the Ohio EPA Central Office that the system meets all requirements of ORC section 3704.03(I) and 40 CFR Part 60, Appendix B, Performance Specification 6 and/or 40 CFR Part 75.

c. The permittee shall operate and maintain existing equipment to continuously monitor and record NOx from this emissions unit in units of the applicable standard. Such continuous monitoring and recording equipment shall comply with the requirements specified in 40 CFR Part 60.13 and/or 40 CFR Part 75.

d. 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 units of the applicable standard in the appropriate averaging period (e.g., hourly), results of daily zero/span calibration checks, and magnitude of manual calibration adjustments.

e. Within 180 days of the effective date of this permit, the permittee shall develop 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 standard. 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 logbook dedicated to the continuous NOx monitoring system must be kept on site and available for inspection during regular office hours.

4. Continuous CO Monitoring

   a. Prior to the installation of the continuous CO monitoring system, the permittee shall submit information detailing the proposed location of the sampling site in accordance with the siting requirements in 40 CFR Part 60, Appendix B, Performance Specification 4 and 6 for approval by the Ohio EPA, Central Office.

   b. Within 60 days of the startup of this emissions unit, the permittee shall conduct certification tests of the continuous CO monitoring system pursuant to ORC section 3704.03(I), 40 CFR Part 60, Appendix B, Performance Specification 4 and 6. Personnel from the appropriate Ohio EPA District Office or local air agency shall be notified 30 days prior to initiation of the applicable tests and shall be permitted to examine equipment and witness the certification tests. In accordance with OAC rule 3745-15-04, all copies of the test results shall be submitted to the appropriate Ohio EPA District Office or local air agency within 30 days after the test is completed. Copies of the test results shall be sent to the appropriate Ohio EPA District Office or local air agency and the Ohio EPA, Central Office. Certification of the continuous CO monitoring system shall be granted upon determination by the Ohio EPA Central Office that the system meets all requirements of ORC section 3704.03(I) and 40 CFR Part 60, Appendix B, Performance Specification 4 and 6 and/or 40 CFR Part 75.

   c. The permittee shall operate and maintain equipment to continuously monitor and record CO from this emissions unit in units of the applicable standard. Such continuous monitoring and recording equipment shall comply with the requirements specified in 40 CFR Part 60.13 and/or 40 CFR Part 75.

   d. The permittee shall maintain records of all data obtained by the continuous CO monitoring system including, but not limited to, emissions of CO in units of the applicable standard in the appropriate averaging period (e.g., hourly), results of daily zero/span calibration checks, and magnitude of manual calibration adjustments.

   e. Within 180 days of the effective date of this permit, the permittee shall develop a written quality assurance/quality control plan for the continuous CO monitoring system designed to ensure continuous valid and representative readings of CO. The plan shall follow the requirements of 40 CFR Part 60, Appendix F. The quality assurance/quality control plan and a logbook dedicated to the continuous CO monitoring system must be kept on site and available for inspection during regular office hours.

5. When the emissions unit is combusting natural gas or number two fuel oil and the nitrogen oxides continuous monitoring system is not operational, the permittee shall provide nitrogen oxide missing data pursuant to the provisions listed in 40 CFR Part 75.

6. For each day during which the permittee burns a fuel other than pipeline natural gas, and/or number two fuel oil, the permittee shall maintain a record of the type and quantity of fuel burned

in this emissions unit.

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IV. Reporting Requirements

1. The permittee shall submit quarterly reports which identify each period during which an exemption for ice-fog provided in 40 CFR 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. These reports shall be postmarked by April 30, July 30, October 30, and January 30 and shall cover the previous calendar quarter.

2. The permittee shall submit quarterly deviation reports to the Regional Air Pollution Control Agency that identify any exceedances of the following:

   a. For the first twelve months of operation following startup of these emissions units, the cumulative NOx, CO, SO2, and VOC emission rates from emissions units B001, B002, B003, B004, B005, B006, B007, and B008 combined.

   b. Beginning after the first twelve calendar months of operation following startup of these emissions units, the rolling, 12-month summation of the NOx, CO, SO2, and VOC emission limitations for emissions units B001, B002, B003, B004, B005, B006, B007, and B008 combined.

   c. Beginning after the first twelve calendar months of operation following startup of these emissions units B001, B002, B003, B004, B005, B006, B007, and B008, the rolling, 12-month operating hours limitations and, for the first 12 calendar months of operation following start up emissions units of B001, B002, B003, B004, B005, B006, B007, and B008, all exceedances of the maximum allowable cumulative operating hours levels.

   These reports shall be submitted in accordance with Section A.1. of the General Terms and Conditions of this permit.

3. The permittee shall submit, on a quarterly basis, copies of the permittee's or oil supplier's analyses for each shipment of number two fuel oil which is received for burning in this emissions unit. The permittee's or oil supplier's analyses shall document the sulfur content (percent) and heat content (Btu/gallon) for each shipment of oil. The following information shall also be included with the copies of the permittee's or oil supplier's analyses:

   a. The total quantity of oil received in each shipment (gallons).

   b. The weighted* average sulfur content (percent by weight) for the oil received during each calendar month.

c. The weighted* average heat content (Btu/gallon) of the oil received during each calendar month.

d. The weighted* average SO2 emission rate (lbs/mmBtu of actual heat input) of the oil combusted during each calendar month (the SO2 emission rate shall be calculated as specified in OAC rule 3745-18-04(F)).

* In proportion to the quantity of oil received in each shipment during each calendar month.

4. Continuous NOx Emissions Monitoring

a. Pursuant to OAC rules 3745-15-04, 3745-35-02, and ORC sections 3704.03(I) and 3704.031 and 40 CFR Parts 60.7 and 60.13(h), the permittee shall submit reports within 30 days following the end of each calendar quarter to the appropriate Ohio EPA District Office or local air agency documenting the date, commencement and completion time, duration, magnitude, reason (if known), and corrective actions taken (if any), of all instances of NOx values in excess of the applicable limits specified in the terms and conditions of this permit (29.9 lbs/hour and 25 ppmvd at 15% oxygen when burning natural gas and 46.7 lbs/hour and 42 ppmvd at 15% oxygen when burning number two fuel 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 appropriate Ohio EPA District Office or local air agency documenting any continuous NO_X 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 emissions unit operating time during the reporting period and the date, time, reason, and corrective action(s) taken for each time period of emissions unit, control equipment, and/or monitoring system malfunctions. The total operating time of the emissions unit and the total operating time of the analyzer while the emissions unit was on line also shall be included in the quarterly report. These quarterly excess emission reports shall be submitted by January 30, April 30, July 30, and October 30 of each year and shall address the data obtained during the previous calendar quarter.

5. Continuous CO Emissions Monitoring

a. Pursuant to OAC rules 3745-15-04, 3745-35-02, and ORC sections 3704.03(I) and 3704.031 and 40 CFR Parts 60.7 and 60.13(h), the permittee shall submit reports within 30 days following the end of each calendar quarter to the appropriate Ohio EPA District Office or local air agency documenting the date, commencement and completion times, duration, magnitude, reason (if known), and corrective actions taken (if any) of all instances of CO values in excess of any applicable limits specified in the terms and conditions of this permit (73.5 lbs/hour when burning natural gas, and 33.4 lbs/hour when burning number two fuel oil). These reports shall also contain the total CO 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 appropriate Ohio EPA District Office or local air agency documenting any continuous CO 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 emissions unit operating time during the reporting period and the date, time, reason, and corrective action(s) taken for each time period of emissions unit, control equipment, and/or monitoring system malfunctions. The total operating time of the emissions unit and the total operating time of the analyzer while the emissions unit was on line shall also be included in the quarterly report. These quarterly excess emission reports shall be submitted by January 30, April 30, July 30, and October 30 of each year and shall address the data obtained during the previous calendar quarter.

6. Pursuant to NSPS, the permittee is hereby advised of the requirement to report the following at the appropriate times:

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

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

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

d. Date of performance testing (at least 30 days prior to testing).

Reports are to be sent to:

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

and

Regional Air Pollution Control Agency
451 W. Third Street
P.O. Box 972
Dayton, Ohio 45422

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

8. The permittee shall submit annual reports which specify the total particulate, SO2, OC, and VOC emissions from this emissions unit for the previous calendar year. These reports shall be submitted by January 31 of each year.

V. Testing Requirements

1. Compliance with the emission limitation(s) in Section A.I. of these terms and conditions shall be determined in accordance with the following method(s):

a. Emission Limitation -

120 TPY NOx as a rolling, 12-month summation combined from emissions units B001, B002, B003, B004, B005, B006, B007, and B008.

Applicable Compliance Method -

Compliance shall be based upon record keeping as specified in A.III.1. and shall be determined through the use of CEMs as specified in A.III.3.

The monthly NOx emissions shall be added to the total NOx emissions from the previous eleven months to determine the rolling, 12-month summation of NOx emissions.

b. Emission Limitation -

249 TPY CO as a rolling, 12-month summation combined from emissions units B001, B002, B003, B004, B005, B006, B007, and B008

Applicable Compliance Method -

Compliance shall be based upon record keeping as specified in A.III.1. and shall be determined through the use of CEMs as specified in A.III.4.

The monthly CO emissions shall be added to the total CO emissions from the previous eleven months to determine the rolling, 12-month summation of CO emissions.

c. Emission Limitation -

5.7 TPY SO2 as a rolling, 12-month summation combined from emissions units B001, B002, B003, B004, B005, B006, B007, and B008

Applicable Compliance Method -

Compliance shall be based upon record keeping as specified in A.III.1. and shall be determined through a summation of the SO2 emissions from the burning of natural gas and number 2 fuel oil as follows:

i. The monthly SO2 emissions from the burning of natural gas shall be determined by multiplying the USEPA default value for pipeline natural gas (0.0006 lb SO2/mmBtu) by the combined actual heat input while burning of natural gas (mmBTU/month) in emissions units B001, B002, B003, B004, B005, B006, B007, and B008 and then divideing by 2,000 lbs/ton.

ii. The monthly SO2 emissions from the burning of number 2 fuel oil shall be determined by multiplying the operating hours while burning number 2 fuel oil for the month in emissions units B001, B002, B003, B004, B005,B006, B007, and B008 by the average percent sulfur of the fuel oil used during the period (or 0.05% sulfur) times the factor of 2 lbs of SO2 per lb of sulfur divided by the average heat content of the fuel burned during the period times the combined actual heat input while burning number 2 fuel oil in emissions units B001, B002, B003, B004, B005, B006, B007, and B008 (mmBTU/hr) and then divideing by 2,000 lbs/ton.

iii. The monthly SO2 emissions shall be added to the total SO2 emissions from the previous eleven months to determine the rolling, 12-month summation of SO2 emissions, using the USEPA default value for pipeline natural gas (0.0006 lb SO2/mmBtu) and fuel sampling analysis for fuel oil as determined in Section A.III.2.

d. Emission Limitation -

7.4 TPY VOC*** as a rolling, 12-month summation combined from emissions units B001, B002, B003, B004, B005, B006, B007, and B008

Applicable Compliance Method -

Compliance shall be based upon record keeping as specified in A.III.1. and shall be determined through a summation of the VOC emissions from the burning of natural gas

and number 2 fuel oil as follows:

i. The VOC*** emissions from the burning of natural gas shall be determined by multiplying the operating hours while burning natural gas for the month in emissions units B001, B002, B003, B004, B005, B006, B007, and B008 by the average emission rate (lbs VOC/hour) derived from the stack test conducted in accordance with term A.V.2. that are operating during the month and dividing by 2,000 lbs/ton.

ii. The VOC*** emissions from the burning of number 2 fuel oil shall be determined by multiplying the operating hours while burning number 2 fuel oil for the month in emissions units B001, B002, B003, B004, B005,B006, B007, and B008 by the average emission rate (lbs VOC/hour) derived from the stack test conducted in accordance with term A.V.2. that are operating during the month and dividing by 2,000 lbs/ton.

iii. The monthly VOC*** emissions shall be added to the total VOC emissions from the previous eleven months to determine the rolling, 12-month summation of VOC emissions, using the average emission rates derived from the stack test conducted in accordance with term A.V.2.

e. Emission Limitation -

Sulfur content of oil shall be equal to or less than 0.05 percent by weight sulfur.

Applicable Compliance Method -

Compliance shall be based upon the fuel oil analysis requirement specified in A.II.6 and the record keeping requirements specified in A.III.2.

f. Emission Limitation -

0.040 lb particulate emissions/mmBtu actual heat input

Applicable Compliance Method -

Compliance shall be demonstrated by the manufacturer's guaranteed emissions data.

g. Emission Limitation -

NOx emissions shall not exceed 29.9 lbs/hour and 25 ppmvd at 15% oxygen, when firing natural gas, based on a one-hour average.

NOx emissions shall not exceed 46.7 lbs/hour and 42 ppmvd at 15% oxygen, when firing number two fuel oil, based on a one-hour average.

Applicable Compliance Method -

Compliance with the NOx emission and concentration limitations shall be based upon the continuous emissions monitoring requirement and the monitoring/record keeping required by this permit.

h. Emission Limitation -

73.5 lbs CO/hour, when firing natural gas
33.4 lbs CO/hour, when firing number two fuel oil

Applicable Compliance Method -

Compliance with the CO emission limitation shall be based upon the continuous emissions monitoring requirement and the monitoring/record keeping required by this permit.

i. Emission Limitation -

0.06 lb SO2/mmBtu actual heat input

Applicable Compliance Method -

When firing number two fuel oil, compliance shall be based upon the fuel analysis and record keeping requirements specified in A.II.6. and A.III.2. and the use of the equations specified in OAC rule 3745-18-04(F).

When firing natural gas, compliance with this limitation will be assumed due to the negligible percent sulfur, by weight, in the fuel. If required, the permittee shall perform or require the supplier to perform an analysis of the natural gas for sulfur content in accordance with the appropriate ASTM method (such as, ASTM method D3031), or an equivalent method as approved by the Director, in order to demonstrate compliance with this emission limitation using the appropriate equation specified in AP-42 Table 3.1-1 (10/96).

j. Emission Limitation -

0.18 lb/hour SO2, when firing natural gas.
14.7 lbs/hour SO2, when firing number two fuel oil.

Applicable Compliance Method -

When firing natural gas, compliance shall be based upon multiplying the USEPA default value for pipeline natural gas by the maximum heat input capacity of this emissions unit. When firing number two fuel oil, compliance shall be based upon the fuel analysis and record keeping requirements specified in A.II.6. and A.III.2. and shall be determined by multiplying the sulfur dioxide emissions in lb SO2/mmBtu by the maximum heat input capacity of this emissions unit.

k. Emission Limitation -

2 lbs/hour VOC***, when firing natural gas.
2.7 lbs/hour VOC***, when firing number two fuel oil.

Applicable Compliance Method -

Compliance shall be based upon stack testing as required in A.V.2.

l. Emission Limitation -

17 lbs/hour OC, when firing natural gas.
10.61 lbs/hour OC, when firing number two fuel oil.

Applicable Compliance Method -

Compliance shall be based upon the record keeping requirements specified in A.III.1. and by manufacturer's guaranteed emissions data.

m. Emission Limitation -

60.1 TPY organic emissions combined from emissions units B001, B002, B003, B004, B005, B006, B007, and B008

Applicable Compliance Method -

Compliance shall be based upon record keeping as specified in A.III.1. and the manufacturer's guaranteed emissions data.

n. Emission Limitation -

2 lbs/hour particulate emissions, when firing natural gas.
7 lbs/hour particulate emissions, when firing number 2 fuel oil.

Applicable Compliance Method -

Compliance shall be demonstrated by manufacturer's guaranteed emissions data.

o. Emission Limitation -

8.9 TPY particulate emissions combined from emissions units B001, B002, B003, B004, B005, B006, B007, and B008

Applicable Compliance Method -

Compliance shall be based upon record keeping as specified in A.III.1. and the manufacturer's guaranteed emissions data.

p. Emission Limitation -

10% opacity visible emissions, as a 6-minute average

Applicable Compliance Method -

Compliance shall be determined through visible emissions observations performed in accordance with OAC rule 3745-17-03(B)(1) using the methods and procedures specified in USEPA Reference Method 9.

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

a. The emission testing shall be conducted within 90 days following startup of the emissions unit.

b. The emission testing shall be conducted to demonstrate compliance with the VOC*** emission limitation~~s~~.

***the permittee has requested that if the average emissions rate (lbs/hour) derived from the stack test conducted in accordance with this term is less than the permit VOC allowable listed in term A.I.1., it may apply for an air permit to install modification to increase the hours of operation. The permittee realizes that this modification might trigger the requirement to secure either an administrative or a new air permit to install.

c. The following test method(s) shall be employed to demonstrate compliance with the allowable mass emission rate(s):

for VOC, Method 18 or 25 of 40 CFR Part 60, Appendix A.

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

d. The test(s) shall be conducted while the emissions unit is operating at or near its maximum capacity, unless otherwise specified or approved by the appropriate Ohio EPA District Office or local air agency.

Not later than 30 days prior to the proposed test date(s), the permittee shall submit an "Intent to Test" notification to the appropriate Ohio EPA District Office or local air agency. 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 test(s), and the person(s) who will be conducting the test(s). Failure to submit such notification for review and approval prior to the test(s) may result in the Ohio EPA District Office's or local air agency's refusal to accept the results of the emission test(s).

Personnel from the appropriate Ohio EPA District Office or local air agency shall be permitted to witness the test(s), examine the testing equipment, and acquire data and information necessary to ensure that the operation of the emissions unit and the testing procedures provide a valid characterization of the emissions from the emissions unit and/or the performance of the control equipment.

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

VI. Miscellaneous Requirements

None.

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B. State Only Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

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

Operations, Property, and/or Equipment	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
Natural gas and number two fuel oil-fired, simple cycle, combustion turbine, having a nominal capacity of 269.71 mmBtu/hr (25 MW), controlled with a water injection nitrogen oxides reduction system; G1CT1 - Generator No. 1, Turbine No. 1	None	None

2. Additional Terms and Conditions

None.

II. Operational Restrictions

None.

III. Monitoring and/or Recordkeeping Requirements

None.

IV. Reporting Requirements

None.

V. Testing Requirements

March 21, 2000

None.

March 21, 2000

VI. Miscellaneous Requirements

None.

March 21, 2000

Part III - SPECIAL TERMS AND CONDITIONS FOR SPECIFIC EMISSIONS UNIT(S) [Continued]

A. State and Federally Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

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

Operations, Property, and/or Equipment	Applicable Rules/Requirements	OAC rule 3745-17-11(B)(4)
Natural gas and number two fuel oil-fired, simple cycle, combustion turbine, having a nominal capacity of 269.71 mmBtu/hr (25 MW), controlled with a water injection nitrogen oxides reduction system; G1CT1 - Generator No. 1, Turbine No. 1	OAC rule 3745-31-05(D)	
		OAC rule 3745-31-05(A)(3)
	40 CFR Part 75	

		Applicable Emissions Limitations/Control Measures
	OAC rule 3745-17-07(A) OAC rule 3745-18-06(F) 40 CFR Part 60, Subpart GG OAC rule 3745-21-08(B) OAC rule 3745-23-06(B)	120 TPY NOx as a rolling, 12-month summation combined from emissions units B001, B002, B003, B004, B005, B006, B007, and B008. 249 TPY CO as a rolling, 12-month summation combined from emissions units B001, B002, B003, B004, B005, B006, B007, and B008. 5.7 TPY SO2 as a rolling, 12-month summation combined from emissions units B001, B002, B003, B004, B005, B006, B007, and B008. 7.4 TPY VOC*as a rolling, 12-month summation combined from emissions units B001, B002, B003, B004, B005, B006, B007, and B008. See Sections A.II.6 and A.III.2. for the specific monitoring and record keeping requirements and Section A.IV.3. for the specific reporting requirements. 0.040 lb particulate emissions/mmBtu actual heat input NOx emissions shall not exceed 29.9 lbs/hour and 25 ppmvd at 15% oxygen when firing natural gas, based on a one-hour average as determined through CEMs.

NOx emissions shall not exceed 46.7 lbs/hour and 42 ppmvd at 15% oxygen when firing number two fuel oil, based on a one-hour average as determined through CEMs.

120 TPY NOx combined from B001, B002, B003, B004, B005, B006, B007, and B008.

CO emissions shall not exceed 73.5 lbs/hour when firing natural gas.

CO emissions shall not exceed 33.4 lbs/hour when firing number two fuel oil.

0.06 lb SO2/mmBtu actual heat input

The permittee shall combust oil that contains equal to or less than 0.05 percent by weight sulfur.

0.18 lb/hour SO2 when firing natural gas.

14.7 lbs/hour SO2 when firing number two fuel oil.

2 lbs/hour VOC*, when firing natural gas.

2.7 lbs/hour VOC*, when firing number two fuel oil.

17 lbs/hour OC, when firing natural gas.

10.61 lbs/hour OC, when firing number two fuel oil.

60.1 TPY OC emissions combined from emissions units B001, B002, B003, B004, B005, B006, B007, and B008.

2 lbs/hour particulate emissions when firing natural gas.

7 lbs/hour particulate emissions when firing number 2 fuel oil.

8.9 TPY particulate emissions combined from emissions units B001, B002, B003, B004, B005, B006, B007, and B008.

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

The requirements of this rule also include compliance with the requirements of OAC rule 3745-17-11(B)(4).

The emission limitations from these rules are less stringent than the emission limitations established pursuant to OAC rule 3745-31-05(A)(3) and 3745-31-05(D).

* the permittee has submitted emissions data that supports for purposes of avoiding both federal 112(g) and state of Ohio OAC rule 3745-31-28 regulations that all Hazardous Air Pollutants (HAPs) are less than VOC emissions.

2. Additional Terms and Conditions

2.a Compliance with OAC rule 3745-31-05(A)(3) shall be demonstrated through the use of water injection to reduce nitrogen oxides emissions to 25 ppmvd when burning natural gas and 42 ppmvd when burning number two fuel oil, and the 120 TPY NOx allowable.

2.b In lieu of the requirements of 40 CFR Part 60.334(a) (Subpart GG) to install and operate a continuous monitoring system to monitor the ratio of water to fuel being fired in each turbine, the permittee shall install and operate NOx continuous emissions monitoring system for this emissions unit.

2.c In lieu of monitoring the nitrogen content of the natural gas being fired in the turbine as required by 40 CFR 60 Subpart GG (section 60.334(b)), the permittee shall install and operate systems to continuously monitor and record emissions of NOx from this emissions unit.

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

2.e In lieu of the test methods and procedures required under 40 CFR Part 60.335, the permittee shall follow the testing and Continuous Emissions Monitoring requirements for this emissions unit in accordance with this permit.

2.f Start-up shall be defined as the time necessary to bring a turbine on line from a no load condition to synchronization and shall not exceed a maximum of 15 minutes. Shutdown periods shall not exceed 15 minutes.

II. Operational Restrictions

1. To ensure enforceability during the first twelve calendar months of operation following startup of emissions units B001, B002, B003, B004, B005, B006, B007, and B008, the permittee shall not exceed the cumulative NOx emission rates specified in the following table:

Month	Cumulative Summation of the NOx emission rate (TPY)
1	40
1 - 2	80
1 - 3	120
1 - 4	120
1 - 5	120

1 - 6	120
1 - 7	120
1 - 8	120
1 - 9	120
1 - 10	120
1 - 11	120
1 - 12	120

After the first 12 calendar months of operation following startup of emissions units B001, B002, B003, B004, B005, B006, B007, and B008, compliance with the annual emission limitation shall be based upon a rolling, 12-month summation.

2. To ensure enforceability during the first twelve calendar months of operation following startup of emissions units B001, B002, B003, B004, B005, B006, B007, and B008, the permittee shall not exceed the cumulative CO emission rates specified in the following table:

Month	Cumulative Summation of the CO emission rate (TPY)
1	83
1 - 2	166
1 - 3	249
1 - 4	249
1 - 5	249
1 - 6	249
1 - 7	249
1 - 8	249
1 - 9	249
1 - 10	249
1 - 11	249
1 - 12	249

After the first 12 calendar months of operation following startup of emissions units B001, B002, B003, B004, B005, B006, B007, and B008, compliance with the annual emission limitation shall be based upon a rolling, 12-month summation.

3. To ensure enforceability during the first twelve calendar months of operation following startup of emissions units B001, B002, B003, B004, B005, B006, B007, and B008, the permittee shall not exceed the cumulative SO2 emission rates specified in the following table:

Month	Cumulative Summation of the SO2 emission rate (TPY)
1	1.14
1 - 2	2.28
1 - 3	3.42

1 - 4	4.56
1 - 5	5.7
1 - 6	5.7
1 - 7	5.7
1 - 8	5.7
1 - 9	5.7
1 - 10	5.7
1 - 11	5.7
1 - 12	5.7

After the first 12 calendar months of operation following startup of emissions units B001, B002, B003, B004, B005, B006, B007, and B008, compliance with the annual emission limitation shall be based upon a rolling, 12-month summation.

4. To ensure enforceability during the first twelve calendar months of operation following startup of emissions units B001, B002, B003, B004, B005, B006, B007, and B008, the permittee shall not exceed the cumulative VOC emission rates specified in the following table:

Month	Cumulative Summation of the VOC emission rate (TPY)
1	2.5
1 - 2	4.9
1 - 3	7.4
1 - 4	7.4
1 - 5	7.4
1 - 6	7.4
1 - 7	7.4
1 - 8	7.4
1 - 9	7.4
1 - 10	7.4
1 - 11	7.4
1 - 12	7.4

After the first 12 calendar months of operation following startup of emissions units B001, B002, B003, B004, B005, B006, B007, and B008, compliance with the annual emission limitation shall be based upon a rolling, 12-month summation.

5. The maximum annual operating hours for emissions units B001, B002, B003, B004, B005, B006, B007, and B008 shall not exceed 6,434** while burning natural gas and 694** while burning fuel

oil no. 2., based upon a rolling, 12-month summation of the operating hours.

To ensure enforceability during the first twelve calendar months of operation following startup of emissions units B001, B002, B003, B004, B005, B006, B007, and B008, the permittee shall not exceed the cumulative operating hours levels specified in the following table:

Month	Maximum Allowable Cumulative Operating Hours While Burning Natural Gas**	Maximum Allowable Cumulative Operating Hours While Burning Fuel Oil No. 2**
1	2,145	231
1 - 2	4,289	463
1 - 3	6,434	694
1 - 4	6,434	694
1 - 5	6,434	694
1 - 6	6,434	694
1 - 7	6,434	694
1 - 8	6,434	694
1 - 9	6,434	694
1 - 10	6,434	694
1 - 11	6,434	694
1 - 12	6,434	694

** the permittee may combust 1.37 additional hours of natural gas for every hour fuel oil not combusted, up to 7, 386 hours annually of natural gas combustion.

After the first 12 calendar months of operation following startup of emissions units B001, B002, B003, B004, B005, B006, B007, and B008, compliance with the annual operating hours limitation shall be based upon a rolling, 12-month summation of the operating hours.

6. The quality of number two fuel oil burned in this emissions unit shall have a combination of heat and sulfur content which is sufficient to comply with the allowable sulfur dioxide emission limitation.

Compliance with the above mentioned specification shall be determined by using analytical results provided by the permittee or oil supplier for each shipment of oil. The permittee shall perform or require the supplier to perform the analyses for sulfur content and heat content in accordance with

the following ASTM methods: ASTM method D4294, ASTM method D240, or ASTM method 6010 for sulfur content; and ASTM method D240 for heat content. The newest or most recent revisions to the applicable test method shall be used for analyses. Alternative, equivalent methods may be used upon written approval by the Ohio EPA District Office or local air agency.

7. The permittee shall burn only pipeline natural gas, and/or number two fuel oil in this emissions unit.

III. Monitoring and/or Record keeping Requirements

1. The permittee shall maintain monthly records of the following information:

   a. The amount of number two fuel oil burned, in gallons.

   b. The amount of natural gas burned, in cubic feet.

   c. The summation of the operating hours from emissions units B001, B002, B003, B004, B005, B006, B007, and B008 combined, in hours /month when burning natural gas and/or when burning fuel oil no. 2.

   d. During the first twelve calendar months of operation following startup, the cumulative operating hours for each calendar month when burning natural gas and/or when burning fuel oil no. 2. Following the first twelve calendar months of operation following startup, the rolling, 12-month summation of the operating hours from emissions units B001, B002, B003, B004, B005, B006, B007, and B008 combined, in hours/rolling, 12-month period when burning natural gas and/or when burning fuel oil no. 2.

   e. The summation of the NOx emissions from emissions units B001, B002, B003, B004, B005, B006, B007, and B008 combined, in tons/month.

   f. During the first twelve calendar months of operation following startup, the cumulative NOx emissions for each calendar month. Following the first twelve calendar months of operation following startup, the rolling, 12-month summation of the NOx emissions from emissions units B001, B002, B003, B004, B005, B006, B007, and B008 combined, in tons/rolling, 12-month period.

   g. The summation of the CO emissions from emissions units B001, B002, B003, B004, B005, B006, B007, and B008 combined, in tons/month.

   h. During the first twelve calendar months of operation following startup, the cumulative CO emissions for each calendar month. Following the first twelve calendar months of operation following startup, the rolling, 12-month summation of the CO emissions from emissions units B001, B002, B003, B004, B005, B006, B007, and B008 combined, in tons/rolling, 12-month period.

   i. The summation of the SO2 emissions from emissions units B001, B002, B003, B004,

B005, B006, B007, and B008 combined, in tons/month.

j. During the first twelve calendar months of operation following startup, the cumulative SO2 emissions for each calendar month. Following the first twelve calendar months of operation following startup, The rolling, 12-month summation of the SO2 emissions from emissions units B001, B002, B003, B004, B005, B006, B007, and B008 combined, in tons/rolling, 12-month period.

k. The summation of the VOC emissions from emissions units B001, B002, B003, B004, B005, B006, B007, and B008 combined, in tons/month.

l. During the first twelve calendar months of operation following startup, the cumulative VOC emissions for each calendar month. Following the first twelve calendar months of operation following startup, The rolling, 12-month summation of the VOC emissions from emissions units B001, B002, B003, B004, B005, B006, B007, and B008 combined, in tons/rolling, 12-month period.

2. The permittee shall monitor the sulfur content of the fuel oil being fired in the turbine. The frequency of monitoring shall be determined as follows:

a. If the turbine is supplied fuel oil from a bulk storage tank, the values shall be determined on each occasion that fuel oil is transferred to the storage tank from any other source.

b. If the turbine is supplied its fuel oil without intermediate bulk storage the values shall be determined and recorded daily. Owners, operators or fuel vendors may develop custom fuel schedules for the determination of the values based on the design and operation of the affected facility and the characteristics of the fuel supply. These custom schedules shall be substantiated with data and must be approved by the Ohio EPA, Central Office before they can be used.

c. For each shipment of oil received for burning in this emissions unit, the permittee shall maintain records of the total quantity of oil received and the permittee's or oil supplier's analyses for sulfur content and heat content.

3. <u>Continuous NOx Monitoring</u>

a. Prior to the installation of the continuous NOx monitoring system, the permittee shall submit information detailing the proposed location of the sampling site in accordance with the siting requirements in 40 CFR Part 60, Appendix B,

Performance Specification 6 for approval by the Ohio EPA, Central Office.

b. Within 60 days of the startup of this emissions unit, the permittee shall conduct certification tests of such equipment pursuant to ORC section 3704.03(I) and 40 CFR Part 60, Appendix B, Performance Specification 6, and/or 40 CFR Part 75. Personnel from the Regional Air Pollution Control Agency shall be notified 30 days prior to initiation of the applicable tests and shall be permitted to examine equipment and witness the certification tests. In accordance with OAC rule 3745-15-04, all copies of the test results shall be submitted to the Regional Air Pollution Control Agency within 30 days after the test is completed. Copies of the test results shall be sent to the Regional Air Pollution Control Agency and the Ohio EPA Central Office. Certification of the continuous NOx monitoring system shall be granted upon determination by the Ohio EPA Central Office that the system meets all requirements of ORC section 3704.03(I) and 40 CFR Part 60, Appendix B, Performance Specification 6 and/or 40 CFR Part 75.

c. The permittee shall operate and maintain existing equipment to continuously monitor and record NOx from this emissions unit in units of the applicable standard. Such continuous monitoring and recording equipment shall comply with the requirements specified in 40 CFR Part 60.13 and/or 40 CFR Part 75.

d. 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 units of the applicable standard in the appropriate averaging period (e.g., hourly), results of daily zero/span calibration checks, and magnitude of manual calibration adjustments.

e. Within 180 days of the effective date of this permit, the permittee shall develop 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 standard. 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 logbook dedicated to the continuous NOx monitoring system must be kept on site and available for inspection during regular office hours.

4. Continuous CO Monitoring

a. Prior to the installation of the continuous CO monitoring system, the permittee shall submit information detailing the proposed location of the sampling site in accordance with the siting requirements in 40 CFR Part 60, Appendix B, Performance Specification 4 and 6 for approval by the Ohio EPA, Central Office.

b. Within 60 days of the startup of this emissions unit, the permittee shall conduct certification tests of the continuous CO monitoring system pursuant to ORC section 3704.03(I), 40 CFR Part 60, Appendix B, Performance Specification 4 and 6. Personnel from the appropriate Ohio EPA District Office or local air agency shall be notified 30 days prior to initiation of the applicable tests and shall be permitted to examine equipment and witness the certification tests. In accordance with OAC rule 3745-15-04, all copies of the test results shall be submitted to the appropriate Ohio EPA District Office or local air agency within 30 days after the test is completed. Copies of the test results shall be sent to the appropriate Ohio EPA District Office or local air agency and the Ohio EPA, Central Office. Certification of the continuous CO monitoring system shall be granted upon determination by the Ohio EPA Central Office that the system meets all requirements of ORC section 3704.03(I) and 40 CFR Part 60, Appendix B, Performance Specification 4 and 6 and/or 40 CFR Part 75.

c. The permittee shall operate and maintain equipment to continuously monitor and record CO from this emissions unit in units of the applicable standard. Such continuous monitoring and recording equipment shall comply with the requirements specified in 40 CFR Part 60.13 and/or 40 CFR Part 75.

d. The permittee shall maintain records of all data obtained by the continuous CO monitoring system including, but not limited to, emissions of CO in units of the applicable standard in the appropriate averaging period (e.g., hourly), results of daily zero/span calibration checks, and magnitude of manual calibration adjustments.

e. Within 180 days of the effective date of this permit, the permittee shall develop a written quality assurance/quality control plan for the continuous CO monitoring system designed to ensure continuous valid and representative readings of CO. The plan shall follow the requirements of 40 CFR Part 60, Appendix F. The quality assurance/quality control plan and a logbook dedicated to the continuous CO monitoring system must be kept on site and available for inspection during regular office hours.

5. When the emissions unit is combusting natural gas or number two fuel oil and the nitrogen oxides continuous monitoring system is not operational, the permittee shall provide nitrogen oxide missing data pursuant to the provisions listed in 40 CFR Part 75.

6. For each day during which the permittee burns a fuel other than pipeline natural gas, and/or number two fuel oil, the permittee shall maintain a record of the type and quantity of fuel burned in this emissions unit.

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IV. Reporting Requirements

1. The permittee shall submit quarterly reports which identify each period during which an exemption for ice-fog provided in 40 CFR 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. These reports shall be postmarked by April 30, July 30, October 30, and January 30 and shall cover the previous calendar quarter.

2. The permittee shall submit quarterly deviation reports to the Regional Air Pollution Control Agency that identify any exceedances of the following:

   a. For the first twelve months of operation following startup of these emissions units, the cumulative NOx, CO, SO2, and VOC emission rates from emissions units B001, B002, B003, B004, B005, B006, B007, and B008 combined.

   b. Beginning after the first twelve calendar months of operation following startup of these emissions units, the rolling, 12-month summation of the NOx, CO, SO2, and VOC emission limitations for emissions units B001, B002, B003, B004, B005, B006, B007, and B008 combined.

   c. Beginning after the first twelve calendar months of operation following startup of these emissions units B001, B002, B003, B004, B005, B006, B007, and B008, the rolling, 12-month operating hours limitations and, for the first 12 calendar months of operation following start up emissions units of B001, B002, B003, B004, B005, B006, B007, and B008, all exceedances of the maximum allowable cumulative operating hours levels.

   These reports shall be submitted in accordance with Section A.1. of the General Terms and Conditions of this permit.

3. The permittee shall submit, on a quarterly basis, copies of the permittee's or oil supplier's analyses for each shipment of number two fuel oil which is received for burning in this emissions unit. The permittee's or oil supplier's analyses shall document the sulfur content (percent) and heat content (Btu/gallon) for each shipment of oil. The following information shall also be included with the copies of the permittee's or oil supplier's analyses:

   a. The total quantity of oil received in each shipment (gallons).

   b. The weighted* average sulfur content (percent by weight) for the oil received during each calendar month.

c. The weighted* average heat content (Btu/gallon) of the oil received during each calendar month.

d. The weighted* average SO2 emission rate (lbs/mmBtu of actual heat input) of the oil combusted during each calendar month (the SO2 emission rate shall be calculated as specified in OAC rule 3745-18-04(F)).

* In proportion to the quantity of oil received in each shipment during each calendar month.

4. Continuous NOx Emissions Monitoring

a. Pursuant to OAC rules 3745-15-04, 3745-35-02, and ORC sections 3704.03(I) and 3704.031 and 40 CFR Parts 60.7 and 60.13(h), the permittee shall submit reports within 30 days following the end of each calendar quarter to the appropriate Ohio EPA District Office or local air agency documenting the date, commencement and completion time, duration, magnitude, reason (if known), and corrective actions taken (if any), of all instances of NOx values in excess of the applicable limits specified in the terms and conditions of this permit (29.9 lbs/hour and 25 ppmvd at 15% oxygen when burning natural gas and 46.7 lbs/hour and 42 ppmvd at 15% oxygen when burning number two fuel 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 appropriate Ohio EPA District Office or local air agency documenting any continuous NO_X 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 emissions unit operating time during the reporting period and the date, time, reason, and corrective action(s) taken for each time period of emissions unit, control equipment, and/or monitoring system malfunctions. The total operating time of the emissions unit and the total operating time of the analyzer while the emissions unit was on line also shall be included in the quarterly report. These quarterly excess emission reports shall be submitted by January 30, April 30, July 30, and October 30 of each year and shall address the data obtained during the previous calendar quarter.

5. Continuous CO Emissions Monitoring

a. Pursuant to OAC rules 3745-15-04, 3745-35-02, and ORC sections 3704.03(I) and 3704.031 and 40 CFR Parts 60.7 and 60.13(h), the permittee shall submit reports within 30 days following the end of each calendar quarter to the appropriate Ohio EPA District Office or local air agency documenting the date, commencement and completion times, duration, magnitude, reason (if known), and corrective actions taken (if any) of all instances of CO values in excess of any applicable limits specified in the terms and conditions of this permit (73.5 lbs/hour when burning natural gas, and 33.4 lbs/hour when burning number two fuel oil). These reports shall also contain the total CO 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 appropriate Ohio EPA District Office or local air agency documenting any continuous CO 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 emissions unit operating time during the reporting period and the date, time, reason, and corrective action(s) taken for each time period of emissions unit, control equipment, and/or monitoring system malfunctions. The total operating time of the emissions unit and the total operating time of the analyzer while the emissions unit was on line shall also be included in the quarterly report. These quarterly excess emission reports shall be submitted by January 30, April 30, July 30, and October 30 of each year and shall address the data obtained during the previous calendar quarter.

6. Pursuant to NSPS, the permittee is hereby advised of the requirement to report the following at the appropriate times:

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

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

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

d. Date of performance testing (at least 30 days prior to testing).

Reports are to be sent to:

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

and

Regional Air Pollution Control Agency
451 W. Third Street
P.O. Box 972
Dayton, Ohio 45422

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

8. The permittee shall submit annual reports which specify the total particulate, SO2, OC, and VOC emissions from this emissions unit for the previous calendar year. These reports shall be submitted by January 31 of each year.

V. Testing Requirements

1. Compliance with the emission limitation(s) in Section A.I. of these terms and conditions shall be determined in accordance with the following method(s):

a. Emission Limitation -

120 TPY NOx as a rolling, 12-month summation combined from emissions units B001, B002, B003, B004, B005, B006, B007, and B008.

Applicable Compliance Method -

Compliance shall be based upon record keeping as specified in A.III.1. and shall be determined through the use of CEMs as specified in A.III.3.

The monthly NOx emissions shall be added to the total NOx emissions from the previous eleven months to determine the rolling, 12-month summation of NOx emissions.

b. Emission Limitation -

249 TPY CO as a rolling, 12-month summation combined from emissions units B001, B002, B003, B004, B005, B006, B007, and B008

Applicable Compliance Method -

Compliance shall be based upon record keeping as specified in A.III.1. and shall be determined through the use of CEMs as specified in A.III.4.

The monthly CO emissions shall be added to the total CO emissions from the previous eleven months to determine the rolling, 12-month summation of CO emissions.

c. Emission Limitation -

5.7 TPY SO2 as a rolling, 12-month summation combined from emissions units B001, B002, B003, B004, B005, B006, B007, and B008

Applicable Compliance Method -

Compliance shall be based upon record keeping as specified in A.III.1. and shall be determined through a summation of the SO2 emissions from the burning of natural gas and number 2 fuel oil as follows:

i. The monthly SO2 emissions from the burning of natural gas shall be determined by multiplying the USEPA default value for pipeline natural gas (0.0006 lb SO2/mmBtu) by the combined actual heat input while burning of natural gas (mmBTU/month) in emissions units B001, B002, B003, B004, B005, B006, B007, and B008 and then divideing by 2,000 lbs/ton.

ii. The monthly SO2 emissions from the burning of number 2 fuel oil shall be determined by multiplying the operating hours while burning number 2 fuel oil for the month in emissions units B001, B002, B003, B004, B005,B006, B007, and B008 by the average percent sulfur of the fuel oil used during the period (or 0.05% sulfur) times the factor of 2 lbs of SO2 per lb of sulfur divided by the average heat content of the fuel burned during the period times the combined actual heat input while burning number 2 fuel oil in emissions units B001, B002, B003, B004, B005, B006, B007, and B008 (mmBTU/hr) and then divideing by 2,000 lbs/ton.

iii. The monthly SO2 emissions shall be added to the total SO2 emissions from the previous eleven months to determine the rolling, 12-month summation of SO2 emissions, using the USEPA default value for pipeline natural gas (0.0006 lb SO2/mmBtu) and fuel sampling analysis for fuel oil as determined in Section A.III.2.

d. Emission Limitation -

7.4 TPY VOC*** as a rolling, 12-month summation combined from emissions units B001, B002, B003, B004, B005, B006, B007, and B008

Applicable Compliance Method -

Compliance shall be based upon record keeping as specified in A.III.1. and shall be

determined through a summation of the VOC emissions from the burning of natural gas and number 2 fuel oil as follows:

i. The VOC*** emissions from the burning of natural gas shall be determined by multiplying the operating hours while burning natural gas for the month in emissions units B001, B002, B003, B004, B005, B006, B007, and B008 by the average emission rate (lbs VOC/hour) derived from the stack test conducted in accordance with term A.V.2. that are operating during the month and dividing by 2,000 lbs/ton.

ii. The VOC*** emissions from the burning of number 2 fuel oil shall be determined by multiplying the operating hours while burning number 2 fuel oil for the month in emissions units B001, B002, B003, B004, B005,B006, B007, and B008 by the average emission rate (lbs VOC/hour) derived from the stack test conducted in accordance with term A.V.2. that are operating during the month and dividing by 2,000 lbs/ton.

iii. The monthly VOC*** emissions shall be added to the total VOC emissions from the previous eleven months to determine the rolling, 12-month summation of VOC emissions, using the average emission rates derived from the stack test conducted in accordance with term A.V.2.

e. Emission Limitation -

Sulfur content of oil shall be equal to or less than 0.05 percent by weight sulfur.

Applicable Compliance Method -

Compliance shall be based upon the fuel oil analysis requirement specified in A.II.6 and the record keeping requirements specified in A.III.2.

f. Emission Limitation -

0.040 lb particulate emissions/mmBtu actual heat input

Applicable Compliance Method -

Compliance shall be demonstrated by the manufacturer's guaranteed emissions data.

g. Emission Limitation -

NOx emissions shall not exceed 29.9 lbs/hour and 25 ppmvd at 15% oxygen, when firing natural gas, based on a one-hour average.

NOx emissions shall not exceed 46.7 lbs/hour and 42 ppmvd at 15% oxygen, when firing number two fuel oil, based on a one-hour average.

Applicable Compliance Method -

Compliance with the NOx emission and concentration limitations shall be based upon the continuous emissions monitoring requirement and the monitoring/record keeping required by this permit.

h. Emission Limitation -

73.5 lbs CO/hour, when firing natural gas
33.4 lbs CO/hour, when firing number two fuel oil

Applicable Compliance Method -

Compliance with the CO emission limitation shall be based upon the continuous emissions monitoring requirement and the monitoring/record keeping required by this permit.

i. Emission Limitation -

0.06 lb SO2/mmBtu actual heat input

Applicable Compliance Method -

When firing number two fuel oil, compliance shall be based upon the fuel analysis and record keeping requirements specified in A.II.6. and A.III.2. and the use of the equations specified in OAC rule 3745-18-04(F).

When firing natural gas, compliance with this limitation will be assumed due to the negligible percent sulfur, by weight, in the fuel. If required, the permittee shall perform or require the supplier to perform an analysis of the natural gas for sulfur content in accordance with the appropriate ASTM method (such as, ASTM method D3031), or an equivalent method as approved by the Director, in order to demonstrate compliance with this emission limitation using the appropriate equation specified in AP-42 Table 3.1-1 (10/96).

j. Emission Limitation -

0.18 lb/hour SO2, when firing natural gas.
14.7 lbs/hour SO2, when firing number two fuel oil.

Applicable Compliance Method -

When firing natural gas, compliance shall be based upon multiplying the USEPA default value for pipeline natural gas by the maximum heat input capacity of this emissions unit. When firing number two fuel oil, compliance shall be based upon the fuel analysis and record keeping requirements specified in A.II.6. and A.III.2. and shall be determined by multiplying the sulfur dioxide emissions in lb SO2/mmBtu by the maximum heat input capacity of this emissions unit.

k. Emission Limitation -

2 lbs/hour VOC***, when firing natural gas.
2.7 lbs/hour VOC***, when firing number two fuel oil.

Applicable Compliance Method -

Compliance shall be based upon stack testing as required in A.V.2.

l. Emission Limitation -

17 lbs/hour OC, when firing natural gas.
10.61 lbs/hour OC, when firing number two fuel oil.

Applicable Compliance Method -

Compliance shall be based upon the record keeping requirements specified in A.III.1. and by manufacturer's guaranteed emissions data.

m. Emission Limitation -

60.1 TPY organic emissions combined from emissions units B001, B002, B003, B004, B005, B006, B007, and B008

Applicable Compliance Method -

Compliance shall be based upon record keeping as specified in A.III.1. and the manufacturer's guaranteed emissions data.

n. Emission Limitation -

2 lbs/hour particulate emissions, when firing natural gas.
7 lbs/hour particulate emissions, when firing number 2 fuel oil.

Applicable Compliance Method -

Compliance shall be demonstrated by manufacturer's guaranteed emissions data.

o. Emission Limitation -

8.9 TPY particulate emissions combined from emissions units B001, B002, B003, B004, B005, B006, B007, and B008

Applicable Compliance Method -

Compliance shall be based upon record keeping as specified in A.III.1. and the manufacturer's guaranteed emissions data.

p. Emission Limitation -

10% opacity visible emissions, as a 6-minute average

Applicable Compliance Method -

Compliance shall be determined through visible emissions observations performed in accordance with OAC rule 3745-17-03(B)(1) using the methods and procedures specified in USEPA Reference Method 9.

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

a. The emission testing shall be conducted within 90 days following startup of the emissions unit.

b. The emission testing shall be conducted to demonstrate compliance with the VOC*** emission limitation~~s~~.

***the permittee has requested that if the average emissions rate (lbs/hour) derived from the stack test conducted in accordance with this term is less than the permit VOC allowable listed in term A.I.1., it may apply for an air permit to install modification to increase the hours of operation. The permittee realizes that this modification might trigger the requirement to secure either an administrative or a new air permit to install.

c. The following test method(s) shall be employed to demonstrate compliance with the allowable mass emission rate(s):

for VOC, Method 18 or 25 of 40 CFR Part 60, Appendix A.

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

d. The test(s) shall be conducted while the emissions unit is operating at or near its maximum capacity, unless otherwise specified or approved by the appropriate Ohio EPA District Office or local air agency.

Not later than 30 days prior to the proposed test date(s), the permittee shall submit an "Intent to Test" notification to the appropriate Ohio EPA District Office or local air agency. 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 test(s), and the person(s) who will be conducting the test(s). Failure to submit such notification for review and approval prior to the test(s) may result in the Ohio EPA District Office's or local air agency's refusal to accept the results of the emission test(s).

Personnel from the appropriate Ohio EPA District Office or local air agency shall be permitted to witness the test(s), examine the testing equipment, and acquire data and information necessary to ensure that the operation of the emissions unit and the testing procedures provide a valid characterization of the emissions from the emissions unit and/or the performance of the control equipment.

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

VI. Miscellaneous Requirements

None.

Emissions Unit ID: **B004**

B. State Only Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

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

Operations, Property, and/or Equipment	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
Natural gas and number two fuel oil-fired, simple cycle, combustion turbine, having a nominal capacity of 269.71 mmBtu/hr (25 MW), controlled with a water injection nitrogen oxides reduction system; G1CT1 - Generator No. 1, Turbine No. 1	None	None

2. Additional Terms and Conditions

None.

II. Operational Restrictions

None.

III. Monitoring and/or Recordkeeping Requirements

None.

IV. Reporting Requirements

None.

V. Testing Requirements

None.

March 21, 2000

VI. Miscellaneous Requirements

None.

March 21, 2000

Part III - SPECIAL TERMS AND CONDITIONS FOR SPECIFIC EMISSIONS UNIT(S) [Continued]

A. State and Federally Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

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

Operations, Property, and/or Equipment	Applicable Rules/Requirements	
Natural gas and number two fuel oil-fired, simple cycle, combustion turbine, having a nominal capacity of 269.71 mmBtu/hr (25 MW), controlled with a water injection nitrogen oxides reduction system; G1CT1 - Generator No. 1, Turbine No. 1	OAC rule 3745-31-05(D)	OAC rule 3745-17-11(B)(4)
		OAC rule 3745-31-05(A)(3)
	40 CFR Part 75	

		Applicable Emissions Limitations/Control Measures
	OAC rule 3745-17-07(A) OAC rule 3745-18-06(F) 40 CFR Part 60, Subpart GG OAC rule 3745-21-08(B) OAC rule 3745-23-06(B)	120 TPY NOx as a rolling, 12-month summation combined from emissions units B001, B002, B003, B004, B005, B006, B007, and B008. 249 TPY CO as a rolling, 12-month summation combined from emissions units B001, B002, B003, B004, B005, B006, B007, and B008. 5.7 TPY SO2 as a rolling, 12-month summation combined from emissions units B001, B002, B003, B004, B005, B006, B007, and B008. 7.4 TPY VOC*as a rolling, 12-month summation combined from emissions units B001, B002, B003, B004, B005, B006, B007, and B008. See Sections A.II.6 and A.III.2. for the specific monitoring and record keeping requirements and Section A.IV.3. for the specific reporting requirements. 0.040 lb particulate emissions/mmBtu actual heat input NOx emissions shall not exceed 29.9 lbs/hour and 25 ppmvd at 15% oxygen when firing natural gas, based on a one-hour average as determined through CEMs.

NOx emissions shall not exceed 46.7 lbs/hour and 42 ppmvd at 15% oxygen when firing number two fuel oil, based on a one-hour average as determined through CEMs.

120 TPY NOx combined from B001, B002, B003, B004, B005, B006, B007, and B008.

CO emissions shall not exceed 73.5 lbs/hour when firing natural gas.

CO emissions shall not exceed 33.4 lbs/hour when firing number two fuel oil.

0.06 lb SO2/mmBtu actual heat input

The permittee shall combust oil that contains equal to or less than 0.05 percent by weight sulfur.

0.18 lb/hour SO2 when firing natural gas.

14.7 lbs/hour SO2 when firing number two fuel oil.

2 lbs/hour VOC*, when firing natural gas.

2.7 lbs/hour VOC*, when firing number two fuel oil.

17 lbs/hour OC, when firing natural gas.

10.61 lbs/hour OC, when firing number two fuel oil.

60.1 TPY OC emissions combined from emissions units B001, B002, B003, B004, B005, B006, B007, and B008.

2 lbs/hour particulate emissions when firing natural gas.

7 lbs/hour particulate emissions when firing number 2 fuel oil.

8.9 TPY particulate emissions combined from emissions units B001, B002, B003, B004, B005, B006, B007, and B008.

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

The requirements of this rule also include compliance with the requirements of OAC rule 3745-17-11(B)(4).

The emission limitations from these rules are less stringent than the emission limitations established pursuant to OAC rule 3745-31-05(A)(3) and 3745-31-05(D).

* the permittee has submitted emissions data that supports for purposes of avoiding both federal 112(g) and state of Ohio OAC rule 3745-31-28 regulations that all Hazardous Air Pollutants (HAPs) are less than VOC emissions.

2. Additional Terms and Conditions

2.a Compliance with OAC rule 3745-31-05(A)(3) shall be demonstrated through the use of water injection to reduce nitrogen oxides emissions to 25 ppmvd when burning natural gas and 42 ppmvd when burning number two fuel oil, and the 120 TPY NOx allowable.

2.b In lieu of the requirements of 40 CFR Part 60.334(a) (Subpart GG) to install and operate a continuous monitoring system to monitor the ratio of water to fuel being fired in each turbine, the permittee shall install and operate NOx continuous emissions monitoring system for this emissions unit.

2.c In lieu of monitoring the nitrogen content of the natural gas being fired in the turbine as required by 40 CFR 60 Subpart GG (section 60.334(b)), the permittee shall install and operate systems to continuously monitor and record emissions of NOx from this emissions unit.

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

2.e In lieu of the test methods and procedures required under 40 CFR Part 60.335, the permittee shall follow the testing and Continuous Emissions Monitoring requirements for this emissions unit in accordance with this permit.

2.f Start-up shall be defined as the time necessary to bring a turbine on line from a no load condition to synchronization and shall not exceed a maximum of 15 minutes. Shutdown periods shall not exceed 15 minutes.

II. Operational Restrictions

1. To ensure enforceability during the first twelve calendar months of operation following startup of emissions units B001, B002, B003, B004, B005, B006, B007, and B008, the permittee shall not exceed the cumulative NOx emission rates specified in the following table:

Month	Cumulative Summation of the NOx emission rate (TPY)
1	40
1 - 2	80
1 - 3	120
1 - 4	120
1 - 5	120

1 - 6	120
1 - 7	120
1 - 8	120
1 - 9	120
1 - 10	120
1 - 11	120
1 - 12	120

After the first 12 calendar months of operation following startup of emissions units B001, B002, B003, B004, B005, B006, B007, and B008, compliance with the annual emission limitation shall be based upon a rolling, 12-month summation.

2. To ensure enforceability during the first twelve calendar months of operation following startup of emissions units B001, B002, B003, B004, B005, B006, B007, and B008, the permittee shall not exceed the cumulative CO emission rates specified in the following table:

Month	Cumulative Summation of the CO emission rate (TPY)
1	83
1 - 2	166
1 - 3	249
1 - 4	249
1 - 5	249
1 - 6	249
1 - 7	249
1 - 8	249
1 - 9	249
1 - 10	249
1 - 11	249
1 - 12	249

After the first 12 calendar months of operation following startup of emissions units B001, B002, B003, B004, B005, B006, B007, and B008, compliance with the annual emission limitation shall be based upon a rolling, 12-month summation.

3. To ensure enforceability during the first twelve calendar months of operation following startup of emissions units B001, B002, B003, B004, B005, B006, B007, and B008, the permittee shall not exceed the cumulative SO2 emission rates specified in the following table:

Month	Cumulative Summation of the SO2 emission rate (TPY)
1	1.14
1 - 2	2.28
1 - 3	3.42

1 - 4	4.56
1 - 5	5.7
1 - 6	5.7
1 - 7	5.7
1 - 8	5.7
1 - 9	5.7
1 - 10	5.7
1 - 11	5.7
1 - 12	5.7

After the first 12 calendar months of operation following startup of emissions units B001, B002, B003, B004, B005, B006, B007, and B008, compliance with the annual emission limitation shall be based upon a rolling, 12-month summation.

4. To ensure enforceability during the first twelve calendar months of operation following startup of emissions units B001, B002, B003, B004, B005, B006, B007, and B008, the permittee shall not exceed the cumulative VOC emission rates specified in the following table:

Month	Cumulative Summation of the VOC emission rate (TPY)
1	2.5
1 - 2	4.9
1 - 3	7.4
1 - 4	7.4
1 - 5	7.4
1 - 6	7.4
1 - 7	7.4
1 - 8	7.4
1 - 9	7.4
1 - 10	7.4
1 - 11	7.4
1 - 12	7.4

After the first 12 calendar months of operation following startup of emissions units B001, B002, B003, B004, B005, B006, B007, and B008, compliance with the annual emission limitation shall be based upon a rolling, 12-month summation.

5. The maximum annual operating hours for emissions units B001, B002, B003, B004, B005, B006, B007, and B008 shall not exceed 6,434** while burning natural gas and 694** while burning fuel

oil no. 2., based upon a rolling, 12-month summation of the operating hours.

To ensure enforceability during the first twelve calendar months of operation following startup of emissions units B001, B002, B003, B004, B005, B006, B007, and B008, the permittee shall not exceed the cumulative operating hours levels specified in the following table:

Month	Maximum Allowable Cumulative Operating Hours While Burning Natural Gas**	Maximum Allowable Cumulative Operating Hours While Burning Fuel Oil No. 2**
1	2,145	231
1 - 2	4,289	463
1 - 3	6,434	694
1 - 4	6,434	694
1 - 5	6,434	694
1 - 6	6,434	694
1 - 7	6,434	694
1 - 8	6,434	694
1 - 9	6,434	694
1 - 10	6,434	694
1 - 11	6,434	694
1 - 12	6,434	694

** the permittee may combust 1.37 additional hours of natural gas for every hour fuel oil not combusted, up to 7, 386 hours annually of natural gas combustion.

After the first 12 calendar months of operation following startup of emissions units B001, B002, B003, B004, B005, B006, B007, and B008, compliance with the annual operating hours limitation shall be based upon a rolling, 12-month summation of the operating hours.

6. The quality of number two fuel oil burned in this emissions unit shall have a combination of heat and sulfur content which is sufficient to comply with the allowable sulfur dioxide emission limitation.

Compliance with the above mentioned specification shall be determined by using analytical results provided by the permittee or oil supplier for each shipment of oil. The permittee shall perform or require the supplier to perform the analyses for sulfur content and heat content in accordance with

the following ASTM methods: ASTM method D4294, ASTM method D240, or ASTM method 6010 for sulfur content; and ASTM method D240 for heat content. The newest or most recent revisions to the applicable test method shall be used for analyses. Alternative, equivalent methods may be used upon written approval by the Ohio EPA District Office or local air agency.

7. The permittee shall burn only pipeline natural gas, and/or number two fuel oil in this emissions unit.

III. Monitoring and/or Record keeping Requirements

1. The permittee shall maintain monthly records of the following information:

   a. The amount of number two fuel oil burned, in gallons.

   b. The amount of natural gas burned, in cubic feet.

   c. The summation of the operating hours from emissions units B001, B002, B003, B004, B005, B006, B007, and B008 combined, in hours /month when burning natural gas and/or when burning fuel oil no. 2.

   d. During the first twelve calendar months of operation following startup, the cumulative operating hours for each calendar month when burning natural gas and/or when burning fuel oil no. 2. Following the first twelve calendar months of operation following startup, the rolling, 12-month summation of the operating hours from emissions units B001, B002, B003, B004, B005, B006, B007, and B008 combined, in hours/rolling, 12-month period when burning natural gas and/or when burning fuel oil no. 2.

   e. The summation of the NOx emissions from emissions units B001, B002, B003, B004, B005, B006, B007, and B008 combined, in tons/month.

   f. During the first twelve calendar months of operation following startup, the cumulative NOx emissions for each calendar month. Following the first twelve calendar months of operation following startup, the rolling, 12-month summation of the NOx emissions from emissions units B001, B002, B003, B004, B005, B006, B007, and B008 combined, in tons/rolling, 12-month period.

   g. The summation of the CO emissions from emissions units B001, B002, B003, B004, B005, B006, B007, and B008 combined, in tons/month.

   h. During the first twelve calendar months of operation following startup, the cumulative CO emissions for each calendar month. Following the first twelve calendar months of operation following startup, the rolling, 12-month summation of the CO emissions from emissions units B001, B002, B003, B004, B005, B006, B007, and B008 combined, in tons/rolling, 12-month period.

   i. The summation of the SO2 emissions from emissions units B001, B002, B003, B004,

B005, B006, B007, and B008 combined, in tons/month.

j. During the first twelve calendar months of operation following startup, the cumulative SO2 emissions for each calendar month. Following the first twelve calendar months of operation following startup, The rolling, 12-month summation of the SO2 emissions from emissions units B001, B002, B003, B004, B005, B006, B007, and B008 combined, in tons/rolling, 12-month period.

k. The summation of the VOC emissions from emissions units B001, B002, B003, B004, B005, B006, B007, and B008 combined, in tons/month.

l. During the first twelve calendar months of operation following startup, the cumulative VOC emissions for each calendar month. Following the first twelve calendar months of operation following startup, The rolling, 12-month summation of the VOC emissions from emissions units B001, B002, B003, B004, B005, B006, B007, and B008 combined, in tons/rolling, 12-month period.

2. The permittee shall monitor the sulfur content of the fuel oil being fired in the turbine. The frequency of monitoring shall be determined as follows:

a. If the turbine is supplied fuel oil from a bulk storage tank, the values shall be determined on each occasion that fuel oil is transferred to the storage tank from any other source.

b. If the turbine is supplied its fuel oil without intermediate bulk storage the values shall be determined and recorded daily. Owners, operators or fuel vendors may develop custom fuel schedules for the determination of the values based on the design and operation of the affected facility and the characteristics of the fuel supply. These custom schedules shall be substantiated with data and must be approved by the Ohio EPA, Central Office before they can be used.

c. For each shipment of oil received for burning in this emissions unit, the permittee shall maintain records of the total quantity of oil received and the permittee's or oil supplier's analyses for sulfur content and heat content.

3. <u>Continuous NOx Monitoring</u>

a. Prior to the installation of the continuous NOx monitoring system, the permittee shall submit information detailing the proposed location of the sampling site in accordance with the siting requirements in 40 CFR Part 60, Appendix B,

Performance Specification 6 for approval by the Ohio EPA, Central Office.

b. Within 60 days of the startup of this emissions unit, the permittee shall conduct certification tests of such equipment pursuant to ORC section 3704.03(I) and 40 CFR Part 60, Appendix B, Performance Specification 6, and/or 40 CFR Part 75. Personnel from the Regional Air Pollution Control Agency shall be notified 30 days prior to initiation of the applicable tests and shall be permitted to examine equipment and witness the certification tests. In accordance with OAC rule 3745-15-04, all copies of the test results shall be submitted to the Regional Air Pollution Control Agency within 30 days after the test is completed. Copies of the test results shall be sent to the Regional Air Pollution Control Agency and the Ohio EPA Central Office. Certification of the continuous NOx monitoring system shall be granted upon determination by the Ohio EPA Central Office that the system meets all requirements of ORC section 3704.03(I) and 40 CFR Part 60, Appendix B, Performance Specification 6 and/or 40 CFR Part 75.

c. The permittee shall operate and maintain existing equipment to continuously monitor and record NOx from this emissions unit in units of the applicable standard. Such continuous monitoring and recording equipment shall comply with the requirements specified in 40 CFR Part 60.13 and/or 40 CFR Part 75.

d. 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 units of the applicable standard in the appropriate averaging period (e.g., hourly), results of daily zero/span calibration checks, and magnitude of manual calibration adjustments.

e. Within 180 days of the effective date of this permit, the permittee shall develop 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 standard. 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 logbook dedicated to the continuous NOx monitoring system must be kept on site and available for inspection during regular office hours.

4. Continuous CO Monitoring

a. Prior to the installation of the continuous CO monitoring system, the permittee shall submit information detailing the proposed location of the sampling site in accordance with the siting requirements in 40 CFR Part 60, Appendix B, Performance Specification 4 and 6 for approval by the Ohio EPA, Central Office.

b. Within 60 days of the startup of this emissions unit, the permittee shall conduct certification tests of the continuous CO monitoring system pursuant to ORC section 3704.03(I), 40 CFR Part 60, Appendix B, Performance Specification 4 and 6. Personnel from the appropriate Ohio EPA District Office or local air agency shall be notified 30 days prior to initiation of the applicable tests and shall be permitted to examine equipment and witness the certification tests. In accordance with OAC rule 3745-15-04, all copies of the test results shall be submitted to the appropriate Ohio EPA District Office or local air agency within 30 days after the test is completed. Copies of the test results shall be sent to the appropriate Ohio EPA District Office or local air agency and the Ohio EPA, Central Office. Certification of the continuous CO monitoring system shall be granted upon determination by the Ohio EPA Central Office that the system meets all requirements of ORC section 3704.03(I) and 40 CFR Part 60, Appendix B, Performance Specification 4 and 6 and/or 40 CFR Part 75.

c. The permittee shall operate and maintain equipment to continuously monitor and record CO from this emissions unit in units of the applicable standard. Such continuous monitoring and recording equipment shall comply with the requirements specified in 40 CFR Part 60.13 and/or 40 CFR Part 75.

d. The permittee shall maintain records of all data obtained by the continuous CO monitoring system including, but not limited to, emissions of CO in units of the applicable standard in the appropriate averaging period (e.g., hourly), results of daily zero/span calibration checks, and magnitude of manual calibration adjustments.

e. Within 180 days of the effective date of this permit, the permittee shall develop a written quality assurance/quality control plan for the continuous CO monitoring system designed to ensure continuous valid and representative readings of CO. The plan shall follow the requirements of 40 CFR Part 60, Appendix F. The quality assurance/quality control plan and a logbook dedicated to the continuous CO monitoring system must be kept on site and available for inspection during regular office hours.

5. When the emissions unit is combusting natural gas or number two fuel oil and the nitrogen oxides continuous monitoring system is not operational, the permittee shall provide nitrogen oxide missing data pursuant to the provisions listed in 40 CFR Part 75.

6. For each day during which the permittee burns a fuel other than pipeline natural gas, and/or number two fuel oil, the permittee shall maintain a record of the type and quantity of fuel burned in this emissions unit.

March 21, 2000

IV. Reporting Requirements

1. The permittee shall submit quarterly reports which identify each period during which an exemption for ice-fog provided in 40 CFR 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. These reports shall be postmarked by April 30, July 30, October 30, and January 30 and shall cover the previous calendar quarter.

2. The permittee shall submit quarterly deviation reports to the Regional Air Pollution Control Agency that identify any exceedances of the following:

   a. For the first twelve months of operation following startup of these emissions units, the cumulative NOx, CO, SO2, and VOC emission rates from emissions units B001, B002, B003, B004, B005, B006, B007, and B008 combined.

   b. Beginning after the first twelve calendar months of operation following startup of these emissions units, the rolling, 12-month summation of the NOx, CO, SO2, and VOC emission limitations for emissions units B001, B002, B003, B004, B005, B006, B007, and B008 combined.

   c. Beginning after the first twelve calendar months of operation following startup of these emissions units B001, B002, B003, B004, B005, B006, B007, and B008, the rolling, 12-month operating hours limitations and, for the first 12 calendar months of operation following start up emissions units of B001, B002, B003, B004, B005, B006, B007, and B008, all exceedances of the maximum allowable cumulative operating hours levels.

   These reports shall be submitted in accordance with Section A.1. of the General Terms and Conditions of this permit.

3. The permittee shall submit, on a quarterly basis, copies of the permittee's or oil supplier's analyses for each shipment of number two fuel oil which is received for burning in this emissions unit. The permittee's or oil supplier's analyses shall document the sulfur content (percent) and heat content (Btu/gallon) for each shipment of oil. The following information shall also be included with the copies of the permittee's or oil supplier's analyses:

   a. The total quantity of oil received in each shipment (gallons).

   b. The weighted* average sulfur content (percent by weight) for the oil received during each calendar month.

c. The weighted* average heat content (Btu/gallon) of the oil received during each calendar month.

d. The weighted* average SO2 emission rate (lbs/mmBtu of actual heat input) of the oil combusted during each calendar month (the SO2 emission rate shall be calculated as specified in OAC rule 3745-18-04(F)).

* In proportion to the quantity of oil received in each shipment during each calendar month.

4. Continuous NOx Emissions Monitoring

a. Pursuant to OAC rules 3745-15-04, 3745-35-02, and ORC sections 3704.03(I) and 3704.031 and 40 CFR Parts 60.7 and 60.13(h), the permittee shall submit reports within 30 days following the end of each calendar quarter to the appropriate Ohio EPA District Office or local air agency documenting the date, commencement and completion time, duration, magnitude, reason (if known), and corrective actions taken (if any), of all instances of NOx values in excess of the applicable limits specified in the terms and conditions of this permit (29.9 lbs/hour and 25 ppmvd at 15% oxygen when burning natural gas and 46.7 lbs/hour and 42 ppmvd at 15% oxygen when burning number two fuel 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 appropriate Ohio EPA District Office or local air agency documenting any continuous NO_X 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 emissions unit operating time during the reporting period and the date, time, reason, and corrective action(s) taken for each time period of emissions unit, control equipment, and/or monitoring system malfunctions. The total operating time of the emissions unit and the total operating time of the analyzer while the emissions unit was on line also shall be included in the quarterly report. These quarterly excess emission reports shall be submitted by January 30, April 30, July 30, and October 30 of each year and shall address the data obtained during the previous calendar quarter.

5. Continuous CO Emissions Monitoring

a. Pursuant to OAC rules 3745-15-04, 3745-35-02, and ORC sections 3704.03(I) and 3704.031 and 40 CFR Parts 60.7 and 60.13(h), the permittee shall submit reports within 30 days following the end of each calendar quarter to the appropriate Ohio EPA District Office or local air agency documenting the date, commencement and completion times, duration, magnitude, reason (if known), and corrective actions taken (if any) of all instances of CO values in excess of any applicable limits specified in the terms and conditions of this permit (73.5 lbs/hour when burning natural gas, and 33.4 lbs/hour when burning number two fuel oil). These reports shall also contain the total CO 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 appropriate Ohio EPA District Office or local air agency documenting any continuous CO 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 emissions unit operating time during the reporting period and the date, time, reason, and corrective action(s) taken for each time period of emissions unit, control equipment, and/or monitoring system malfunctions. The total operating time of the emissions unit and the total operating time of the analyzer while the emissions unit was on line shall also be included in the quarterly report. These quarterly excess emission reports shall be submitted by January 30, April 30, July 30, and October 30 of each year and shall address the data obtained during the previous calendar quarter.

6. Pursuant to NSPS, the permittee is hereby advised of the requirement to report the following at the appropriate times:

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

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

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

d. Date of performance testing (at least 30 days prior to testing).

Reports are to be sent to:

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

and

Regional Air Pollution Control Agency
451 W. Third Street
P.O. Box 972
Dayton, Ohio 45422

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

8. The permittee shall submit annual reports which specify the total particulate, SO2, OC, and VOC emissions from this emissions unit for the previous calendar year. These reports shall be submitted by January 31 of each year.

V. Testing Requirements

1. Compliance with the emission limitation(s) in Section A.I. of these terms and conditions shall be determined in accordance with the following method(s):

a. Emission Limitation -

120 TPY NOx as a rolling, 12-month summation combined from emissions units B001, B002, B003, B004, B005, B006, B007, and B008.

Applicable Compliance Method -

Compliance shall be based upon record keeping as specified in A.III.1. and shall be determined through the use of CEMs as specified in A.III.3.

The monthly NOx emissions shall be added to the total NOx emissions from the previous eleven months to determine the rolling, 12-month summation of NOx emissions.

b. Emission Limitation -

249 TPY CO as a rolling, 12-month summation combined from emissions units B001, B002, B003, B004, B005, B006, B007, and B008

Applicable Compliance Method -

Compliance shall be based upon record keeping as specified in A.III.1. and shall be determined through the use of CEMs as specified in A.III.4.

The monthly CO emissions shall be added to the total CO emissions from the previous eleven months to determine the rolling, 12-month summation of CO emissions.

c. Emission Limitation -

5.7 TPY SO2 as a rolling, 12-month summation combined from emissions units B001, B002, B003, B004, B005, B006, B007, and B008

Applicable Compliance Method -

Compliance shall be based upon record keeping as specified in A.III.1. and shall be determined through a summation of the SO2 emissions from the burning of natural gas and number 2 fuel oil as follows:

i. The monthly SO2 emissions from the burning of natural gas shall be determined by multiplying the USEPA default value for pipeline natural gas (0.0006 lb SO2/mmBtu) by the combined actual heat input while burning of natural gas (mmBTU/month) in emissions units B001, B002, B003, B004, B005, B006, B007, and B008 and then divideing by 2,000 lbs/ton.

ii. The monthly SO2 emissions from the burning of number 2 fuel oil shall be determined by multiplying the operating hours while burning number 2 fuel oil for the month in emissions units B001, B002, B003, B004, B005,B006, B007, and B008 by the average percent sulfur of the fuel oil used during the period (or 0.05% sulfur) times the factor of 2 lbs of SO2 per lb of sulfur divided by the average heat content of the fuel burned during the period times the combined actual heat input while burning number 2 fuel oil in emissions units B001, B002, B003, B004, B005, B006, B007, and B008 (mmBTU/hr) and then divideing by 2,000 lbs/ton.

iii. The monthly SO2 emissions shall be added to the total SO2 emissions from the previous eleven months to determine the rolling, 12-month summation of SO2 emissions, using the USEPA default value for pipeline natural gas (0.0006 lb SO2/mmBtu) and fuel sampling analysis for fuel oil as determined in Section A.III.2.

d. Emission Limitation -

7.4 TPY VOC*** as a rolling, 12-month summation combined from emissions units B001, B002, B003, B004, B005, B006, B007, and B008

Applicable Compliance Method -

Compliance shall be based upon record keeping as specified in A.III.1. and shall be determined through a summation of the VOC emissions from the burning of natural gas

and number 2 fuel oil as follows:

i. The VOC*** emissions from the burning of natural gas shall be determined by multiplying the operating hours while burning natural gas for the month in emissions units B001, B002, B003, B004, B005, B006, B007, and B008 by the average emission rate (lbs VOC/hour) derived from the stack test conducted in accordance with term A.V.2. that are operating during the month and dividing by 2,000 lbs/ton.

ii. The VOC*** emissions from the burning of number 2 fuel oil shall be determined by multiplying the operating hours while burning number 2 fuel oil for the month in emissions units B001, B002, B003, B004, B005,B006, B007, and B008 by the average emission rate (lbs VOC/hour) derived from the stack test conducted in accordance with term A.V.2. that are operating during the month and dividing by 2,000 lbs/ton.

iii. The monthly VOC*** emissions shall be added to the total VOC emissions from the previous eleven months to determine the rolling, 12-month summation of VOC emissions, using the average emission rates derived from the stack test conducted in accordance with term A.V.2.

e. Emission Limitation -

Sulfur content of oil shall be equal to or less than 0.05 percent by weight sulfur.

Applicable Compliance Method -

Compliance shall be based upon the fuel oil analysis requirement specified in A.II.6 and the record keeping requirements specified in A.III.2.

f. Emission Limitation -

0.040 lb particulate emissions/mmBtu actual heat input

Applicable Compliance Method -

Compliance shall be demonstrated by the manufacturer's guaranteed emissions data.

g. Emission Limitation -

NOx emissions shall not exceed 29.9 lbs/hour and 25 ppmvd at 15% oxygen, when firing natural gas, based on a one-hour average.

NOx emissions shall not exceed 46.7 lbs/hour and 42 ppmvd at 15% oxygen, when firing number two fuel oil, based on a one-hour average.

Applicable Compliance Method -

Compliance with the NOx emission and concentration limitations shall be based upon the continuous emissions monitoring requirement and the monitoring/record keeping required by this permit.

h. Emission Limitation -

73.5 lbs CO/hour, when firing natural gas
33.4 lbs CO/hour, when firing number two fuel oil

Applicable Compliance Method -

Compliance with the CO emission limitation shall be based upon the continuous emissions monitoring requirement and the monitoring/record keeping required by this permit.

i. Emission Limitation -

0.06 lb SO2/mmBtu actual heat input

Applicable Compliance Method -

When firing number two fuel oil, compliance shall be based upon the fuel analysis and record keeping requirements specified in A.II.6. and A.III.2. and the use of the equations specified in OAC rule 3745-18-04(F).

When firing natural gas, compliance with this limitation will be assumed due to the negligible percent sulfur, by weight, in the fuel. If required, the permittee shall perform or require the supplier to perform an analysis of the natural gas for sulfur content in accordance with the appropriate ASTM method (such as, ASTM method D3031), or an equivalent method as approved by the Director, in order to demonstrate compliance with this emission limitation using the appropriate equation specified in AP-42 Table 3.1-1 (10/96).

j. Emission Limitation -

0.18 lb/hour SO2, when firing natural gas.
14.7 lbs/hour SO2, when firing number two fuel oil.

Applicable Compliance Method -

When firing natural gas, compliance shall be based upon multiplying the USEPA default value for pipeline natural gas by the maximum heat input capacity of this emissions unit. When firing number two fuel oil, compliance shall be based upon the fuel analysis and record keeping requirements specified in A.II.6. and A.III.2. and shall be determined by multiplying the sulfur dioxide emissions in lb SO2/mmBtu by the maximum heat input capacity of this emissions unit.

k. Emission Limitation -

2 lbs/hour VOC***, when firing natural gas.
2.7 lbs/hour VOC***, when firing number two fuel oil.

Applicable Compliance Method -

Compliance shall be based upon stack testing as required in A.V.2.

l. Emission Limitation -

17 lbs/hour OC, when firing natural gas.
10.61 lbs/hour OC, when firing number two fuel oil.

Applicable Compliance Method -

Compliance shall be based upon the record keeping requirements specified in A.III.1. and by manufacturer's guaranteed emissions data.

m. Emission Limitation -

60.1 TPY organic emissions combined from emissions units B001, B002, B003, B004, B005, B006, B007, and B008

Applicable Compliance Method -

Compliance shall be based upon record keeping as specified in A.III.1. and the manufacturer's guaranteed emissions data.

n. Emission Limitation -

2 lbs/hour particulate emissions, when firing natural gas.
7 lbs/hour particulate emissions, when firing number 2 fuel oil.

Applicable Compliance Method -

Compliance shall be demonstrated by manufacturer's guaranteed emissions data.

o. Emission Limitation -

8.9 TPY particulate emissions combined from emissions units B001, B002, B003, B004, B005, B006, B007, and B008

Applicable Compliance Method -

Compliance shall be based upon record keeping as specified in A.III.1. and the manufacturer's guaranteed emissions data.

p. Emission Limitation -

10% opacity visible emissions, as a 6-minute average

Applicable Compliance Method -

Compliance shall be determined through visible emissions observations performed in accordance with OAC rule 3745-17-03(B)(1) using the methods and procedures specified in USEPA Reference Method 9.

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

a. The emission testing shall be conducted within 90 days following startup of the emissions unit.

b. The emission testing shall be conducted to demonstrate compliance with the VOC*** emission limitation~~s~~.

***the permittee has requested that if the average emissions rate (lbs/hour) derived from the stack test conducted in accordance with this term is less than the permit VOC allowable listed in term A.I.1., it may apply for an air permit to install modification to increase the hours of operation. The permittee realizes that this modification might trigger the requirement to secure either an administrative or a new air permit to install.

c. The following test method(s) shall be employed to demonstrate compliance with the allowable mass emission rate(s):

for VOC, Method 18 or 25 of 40 CFR Part 60, Appendix A.

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

d. The test(s) shall be conducted while the emissions unit is operating at or near its maximum capacity, unless otherwise specified or approved by the appropriate Ohio EPA District Office or local air agency.

Not later than 30 days prior to the proposed test date(s), the permittee shall submit an "Intent to Test" notification to the appropriate Ohio EPA District Office or local air agency. 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 test(s), and the person(s) who will be conducting the test(s). Failure to submit such notification for review and approval prior to the test(s) may result in the Ohio EPA District Office's or local air agency's refusal to accept the results of the emission test(s).

Personnel from the appropriate Ohio EPA District Office or local air agency shall be permitted to witness the test(s), examine the testing equipment, and acquire data and information necessary to ensure that the operation of the emissions unit and the testing procedures provide a valid characterization of the emissions from the emissions unit and/or the performance of the control equipment.

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

VI. Miscellaneous Requirements

None.

March 21, 2000

B. State Only Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

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

Operations, Property, and/or Equipment	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
Natural gas and number two fuel oil-fired, simple cycle, combustion turbine, having a nominal capacity of 269.71 mmBtu/hr (25 MW), controlled with a water injection nitrogen oxides reduction system; G1CT1 - Generator No. 1, Turbine No. 1	None	None

2. Additional Terms and Conditions

None.

II. Operational Restrictions

None.

III. Monitoring and/or Recordkeeping Requirements

None.

IV. Reporting Requirements

None.

V. Testing Requirements

March 21, 2000

None.

March 21, 2000

VI. Miscellaneous Requirements

None.

March 21, 2000

Part III - SPECIAL TERMS AND CONDITIONS FOR SPECIFIC EMISSIONS UNIT(S) [Continued]

A. State and Federally Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

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

Operations, Property, and/or Equipment	Applicable Rules/Requirements	OAC rule 3745-17-11(B)(4)
Natural gas and number two fuel oil-fired, simple cycle, combustion turbine, having a nominal capacity of 269.71 mmBtu/hr (25 MW), controlled with a water injection nitrogen oxides reduction system; G1CT1 - Generator No. 1, Turbine No. 1	OAC rule 3745-31-05(D)	
		OAC rule 3745-31-05(A)(3)
	40 CFR Part 75	

		Applicable Emissions Limitations/Control Measures
	OAC rule 3745-17-07(A) OAC rule 3745-18-06(F) 40 CFR Part 60, Subpart GG OAC rule 3745-21-08(B) OAC rule 3745-23-06(B)	120 TPY NOx as a rolling, 12-month summation combined from emissions units B001, B002, B003, B004, B005, B006, B007, and B008. 249 TPY CO as a rolling, 12-month summation combined from emissions units B001, B002, B003, B004, B005, B006, B007, and B008. 5.7 TPY SO2 as a rolling, 12-month summation combined from emissions units B001, B002, B003, B004, B005, B006, B007, and B008. 7.4 TPY VOC*as a rolling, 12-month summation combined from emissions units B001, B002, B003, B004, B005, B006, B007, and B008. See Sections A.II.6 and A.III.2. for the specific monitoring and record keeping requirements and Section A.IV.3. for the specific reporting requirements. 0.040 lb particulate emissions/mmBtu actual heat input NOx emissions shall not exceed 29.9 lbs/hour and 25 ppmvd at 15% oxygen when firing natural gas, based on a one-hour average as determined through CEMs.

NOx emissions shall not exceed 46.7 lbs/hour and 42 ppmvd at 15% oxygen when firing number two fuel oil, based on a one-hour average as determined through CEMs.

120 TPY NOx combined from B001, B002, B003, B004, B005, B006, B007, and B008.

CO emissions shall not exceed 73.5 lbs/hour when firing natural gas.

CO emissions shall not exceed 33.4 lbs/hour when firing number two fuel oil.

0.06 lb SO2/mmBtu actual heat input

The permittee shall combust oil that contains equal to or less than 0.05 percent by weight sulfur.

0.18 lb/hour SO2 when firing natural gas.

14.7 lbs/hour SO2 when firing number two fuel oil.

2 lbs/hour VOC*, when firing natural gas.

2.7 lbs/hour VOC*, when firing number two fuel oil.

17 lbs/hour OC, when firing natural gas.

10.61 lbs/hour OC, when firing number two fuel oil.

60.1 TPY OC emissions combined from emissions units B001, B002, B003, B004, B005, B006, B007, and B008.

2 lbs/hour particulate emissions when firing natural gas.

7 lbs/hour particulate emissions when firing number 2 fuel oil.

8.9 TPY particulate emissions combined from emissions units B001, B002, B003, B004, B005, B006, B007, and B008.

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

The requirements of this rule also include compliance with the requirements of OAC rule 3745-17-11(B)(4).

The emission limitations from these rules are less stringent than the emission limitations established pursuant to OAC rule 3745-31-05(A)(3) and 3745-31-05(D).

* the permittee has submitted emissions data that supports for purposes of avoiding both federal 112(g) and state of Ohio OAC rule 3745-31-28 regulations that all Hazardous Air Pollutants (HAPs) are less than VOC emissions.

2. Additional Terms and Conditions

2.a Compliance with OAC rule 3745-31-05(A)(3) shall be demonstrated through the use of water injection to reduce nitrogen oxides emissions to 25 ppmvd when burning natural gas and 42 ppmvd when burning number two fuel oil, and the 120 TPY NOx allowable.

2.b In lieu of the requirements of 40 CFR Part 60.334(a) (Subpart GG) to install and operate a continuous monitoring system to monitor the ratio of water to fuel being fired in each turbine, the permittee shall install and operate NOx continuous emissions monitoring system for this emissions unit.

2.c In lieu of monitoring the nitrogen content of the natural gas being fired in the turbine as required by 40 CFR 60 Subpart GG (section 60.334(b)), the permittee shall install and operate systems to continuously monitor and record emissions of NOx from this emissions unit.

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

2.e In lieu of the test methods and procedures required under 40 CFR Part 60.335, the permittee shall follow the testing and Continuous Emissions Monitoring requirements for this emissions unit in accordance with this permit.

2.f Start-up shall be defined as the time necessary to bring a turbine on line from a no load condition to synchronization and shall not exceed a maximum of 15 minutes. Shutdown periods shall not exceed 15 minutes.

II. Operational Restrictions

1. To ensure enforceability during the first twelve calendar months of operation following startup of emissions units B001, B002, B003, B004, B005, B006, B007, and B008, the permittee shall not exceed the cumulative NOx emission rates specified in the following table:

Month	Cumulative Summation of the NOx emission rate (TPY)
1	40
1 - 2	80
1 - 3	120
1 - 4	120
1 - 5	120

1 - 6	120
1 - 7	120
1 - 8	120
1 - 9	120
1 - 10	120
1 - 11	120
1 - 12	120

After the first 12 calendar months of operation following startup of emissions units B001, B002, B003, B004, B005, B006, B007, and B008, compliance with the annual emission limitation shall be based upon a rolling, 12-month summation.

2. To ensure enforceability during the first twelve calendar months of operation following startup of emissions units B001, B002, B003, B004, B005, B006, B007, and B008, the permittee shall not exceed the cumulative CO emission rates specified in the following table:

Month	Cumulative Summation of the CO emission rate (TPY)
1	83
1 - 2	166
1 - 3	249
1 - 4	249
1 - 5	249
1 - 6	249
1 - 7	249
1 - 8	249
1 - 9	249
1 - 10	249
1 - 11	249
1 - 12	249

After the first 12 calendar months of operation following startup of emissions units B001, B002, B003, B004, B005, B006, B007, and B008, compliance with the annual emission limitation shall be based upon a rolling, 12-month summation.

3. To ensure enforceability during the first twelve calendar months of operation following startup of emissions units B001, B002, B003, B004, B005, B006, B007, and B008, the permittee shall not exceed the cumulative SO2 emission rates specified in the following table:

Month	Cumulative Summation of the SO2 emission rate (TPY)
1	1.14
1 - 2	2.28
1 - 3	3.42

1 - 4	4.56
1 - 5	5.7
1 - 6	5.7
1 - 7	5.7
1 - 8	5.7
1 - 9	5.7
1 - 10	5.7
1 - 11	5.7
1 - 12	5.7

After the first 12 calendar months of operation following startup of emissions units B001, B002, B003, B004, B005, B006, B007, and B008, compliance with the annual emission limitation shall be based upon a rolling, 12-month summation.

4. To ensure enforceability during the first twelve calendar months of operation following startup of emissions units B001, B002, B003, B004, B005, B006, B007, and B008, the permittee shall not exceed the cumulative VOC emission rates specified in the following table:

Month	Cumulative Summation of the VOC emission rate (TPY)
1	2.5
1 - 2	4.9
1 - 3	7.4
1 - 4	7.4
1 - 5	7.4
1 - 6	7.4
1 - 7	7.4
1 - 8	7.4
1 - 9	7.4
1 - 10	7.4
1 - 11	7.4
1 - 12	7.4

After the first 12 calendar months of operation following startup of emissions units B001, B002, B003, B004, B005, B006, B007, and B008, compliance with the annual emission limitation shall be based upon a rolling, 12-month summation.

5. The maximum annual operating hours for emissions units B001, B002, B003, B004, B005, B006, B007, and B008 shall not exceed 6,434** while burning natural gas and 694** while burning fuel

oil no. 2., based upon a rolling, 12-month summation of the operating hours.

To ensure enforceability during the first twelve calendar months of operation following startup of emissions units B001, B002, B003, B004, B005, B006, B007, and B008, the permittee shall not exceed the cumulative operating hours levels specified in the following table:

Month	Maximum Allowable Cumulative Operating Hours While Burning Natural Gas**	Maximum Allowable Cumulative Operating Hours While Burning Fuel Oil No. 2**
1	2,145	231
1 - 2	4,289	463
1 - 3	6,434	694
1 - 4	6,434	694
1 - 5	6,434	694
1 - 6	6,434	694
1 - 7	6,434	694
1 - 8	6,434	694
1 - 9	6,434	694
1 - 10	6,434	694
1 - 11	6,434	694
1 - 12	6,434	694

** the permittee may combust 1.37 additional hours of natural gas for every hour fuel oil not combusted, up to 7, 386 hours annually of natural gas combustion.

After the first 12 calendar months of operation following startup of emissions units B001, B002, B003, B004, B005, B006, B007, and B008, compliance with the annual operating hours limitation shall be based upon a rolling, 12-month summation of the operating hours.

6. The quality of number two fuel oil burned in this emissions unit shall have a combination of heat and sulfur content which is sufficient to comply with the allowable sulfur dioxide emission limitation.

Compliance with the above mentioned specification shall be determined by using analytical results provided by the permittee or oil supplier for each shipment of oil. The permittee shall perform or require the supplier to perform the analyses for sulfur content and heat content in accordance with

the following ASTM methods: ASTM method D4294, ASTM method D240, or ASTM method 6010 for sulfur content; and ASTM method D240 for heat content. The newest or most recent revisions to the applicable test method shall be used for analyses. Alternative, equivalent methods may be used upon written approval by the Ohio EPA District Office or local air agency.

7. The permittee shall burn only pipeline natural gas, and/or number two fuel oil in this emissions unit.

III. Monitoring and/or Record keeping Requirements

1. The permittee shall maintain monthly records of the following information:

   a. The amount of number two fuel oil burned, in gallons.

   b. The amount of natural gas burned, in cubic feet.

   c. The summation of the operating hours from emissions units B001, B002, B003, B004, B005, B006, B007, and B008 combined, in hours /month when burning natural gas and/or when burning fuel oil no. 2.

   d. During the first twelve calendar months of operation following startup, the cumulative operating hours for each calendar month when burning natural gas and/or when burning fuel oil no. 2. Following the first twelve calendar months of operation following startup, the rolling, 12-month summation of the operating hours from emissions units B001, B002, B003, B004, B005, B006, B007, and B008 combined, in hours/rolling, 12-month period when burning natural gas and/or when burning fuel oil no. 2.

   e. The summation of the NOx emissions from emissions units B001, B002, B003, B004, B005, B006, B007, and B008 combined, in tons/month.

   f. During the first twelve calendar months of operation following startup, the cumulative NOx emissions for each calendar month. Following the first twelve calendar months of operation following startup, the rolling, 12-month summation of the NOx emissions from emissions units B001, B002, B003, B004, B005, B006, B007, and B008 combined, in tons/rolling, 12-month period.

   g. The summation of the CO emissions from emissions units B001, B002, B003, B004, B005, B006, B007, and B008 combined, in tons/month.

   h. During the first twelve calendar months of operation following startup, the cumulative CO emissions for each calendar month. Following the first twelve calendar months of operation following startup, the rolling, 12-month summation of the CO emissions from emissions units B001, B002, B003, B004, B005, B006, B007, and B008 combined, in tons/rolling, 12-month period.

   i. The summation of the SO2 emissions from emissions units B001, B002, B003, B004,

B005, B006, B007, and B008 combined, in tons/month.

j. During the first twelve calendar months of operation following startup, the cumulative SO2 emissions for each calendar month. Following the first twelve calendar months of operation following startup, The rolling, 12-month summation of the SO2 emissions from emissions units B001, B002, B003, B004, B005, B006, B007, and B008 combined, in tons/rolling, 12-month period.

k. The summation of the VOC emissions from emissions units B001, B002, B003, B004, B005, B006, B007, and B008 combined, in tons/month.

l. During the first twelve calendar months of operation following startup, the cumulative VOC emissions for each calendar month. Following the first twelve calendar months of operation following startup, The rolling, 12-month summation of the VOC emissions from emissions units B001, B002, B003, B004, B005, B006, B007, and B008 combined, in tons/rolling, 12-month period.

2. The permittee shall monitor the sulfur content of the fuel oil being fired in the turbine. The frequency of monitoring shall be determined as follows:

a. If the turbine is supplied fuel oil from a bulk storage tank, the values shall be determined on each occasion that fuel oil is transferred to the storage tank from any other source.

b. If the turbine is supplied its fuel oil without intermediate bulk storage the values shall be determined and recorded daily. Owners, operators or fuel vendors may develop custom fuel schedules for the determination of the values based on the design and operation of the affected facility and the characteristics of the fuel supply. These custom schedules shall be substantiated with data and must be approved by the Ohio EPA, Central Office before they can be used.

c. For each shipment of oil received for burning in this emissions unit, the permittee shall maintain records of the total quantity of oil received and the permittee's or oil supplier's analyses for sulfur content and heat content.

3. <u>Continuous NOx Monitoring</u>

a. Prior to the installation of the continuous NOx monitoring system, the permittee shall submit information detailing the proposed location of the sampling site in accordance with the siting requirements in 40 CFR Part 60, Appendix B,

Performance Specification 6 for approval by the Ohio EPA, Central Office.

b. Within 60 days of the startup of this emissions unit, the permittee shall conduct certification tests of such equipment pursuant to ORC section 3704.03(I) and 40 CFR Part 60, Appendix B, Performance Specification 6, and/or 40 CFR Part 75. Personnel from the Regional Air Pollution Control Agency shall be notified 30 days prior to initiation of the applicable tests and shall be permitted to examine equipment and witness the certification tests. In accordance with OAC rule 3745-15-04, all copies of the test results shall be submitted to the Regional Air Pollution Control Agency within 30 days after the test is completed. Copies of the test results shall be sent to the Regional Air Pollution Control Agency and the Ohio EPA Central Office. Certification of the continuous NOx monitoring system shall be granted upon determination by the Ohio EPA Central Office that the system meets all requirements of ORC section 3704.03(I) and 40 CFR Part 60, Appendix B, Performance Specification 6 and/or 40 CFR Part 75.

c. The permittee shall operate and maintain existing equipment to continuously monitor and record NOx from this emissions unit in units of the applicable standard. Such continuous monitoring and recording equipment shall comply with the requirements specified in 40 CFR Part 60.13 and/or 40 CFR Part 75.

d. 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 units of the applicable standard in the appropriate averaging period (e.g., hourly), results of daily zero/span calibration checks, and magnitude of manual calibration adjustments.

e. Within 180 days of the effective date of this permit, the permittee shall develop 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 standard. 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 logbook dedicated to the continuous NOx monitoring system must be kept on site and available for inspection during regular office hours.

4. Continuous CO Monitoring

a. Prior to the installation of the continuous CO monitoring system, the permittee shall submit information detailing the proposed location of the sampling site in accordance with the siting requirements in 40 CFR Part 60, Appendix B, Performance Specification 4 and 6 for approval by the Ohio EPA, Central Office.

b. Within 60 days of the startup of this emissions unit, the permittee shall conduct certification tests of the continuous CO monitoring system pursuant to ORC section 3704.03(I), 40 CFR Part 60, Appendix B, Performance Specification 4 and 6. Personnel from the appropriate Ohio EPA District Office or local air agency shall be notified 30 days prior to initiation of the applicable tests and shall be permitted to examine equipment and witness the certification tests. In accordance with OAC rule 3745-15-04, all copies of the test results shall be submitted to the appropriate Ohio EPA District Office or local air agency within 30 days after the test is completed. Copies of the test results shall be sent to the appropriate Ohio EPA District Office or local air agency and the Ohio EPA, Central Office. Certification of the continuous CO monitoring system shall be granted upon determination by the Ohio EPA Central Office that the system meets all requirements of ORC section 3704.03(I) and 40 CFR Part 60, Appendix B, Performance Specification 4 and 6 and/or 40 CFR Part 75.

c. The permittee shall operate and maintain equipment to continuously monitor and record CO from this emissions unit in units of the applicable standard. Such continuous monitoring and recording equipment shall comply with the requirements specified in 40 CFR Part 60.13 and/or 40 CFR Part 75.

d. The permittee shall maintain records of all data obtained by the continuous CO monitoring system including, but not limited to, emissions of CO in units of the applicable standard in the appropriate averaging period (e.g., hourly), results of daily zero/span calibration checks, and magnitude of manual calibration adjustments.

e. Within 180 days of the effective date of this permit, the permittee shall develop a written quality assurance/quality control plan for the continuous CO monitoring system designed to ensure continuous valid and representative readings of CO. The plan shall follow the requirements of 40 CFR Part 60, Appendix F. The quality assurance/quality control plan and a logbook dedicated to the continuous CO monitoring system must be kept on site and available for inspection during regular office hours.

5. When the emissions unit is combusting natural gas or number two fuel oil and the nitrogen oxides continuous monitoring system is not operational, the permittee shall provide nitrogen oxide missing data pursuant to the provisions listed in 40 CFR Part 75.

6. For each day during which the permittee burns a fuel other than pipeline natural gas, and/or number two fuel oil, the permittee shall maintain a record of the type and quantity of fuel burned in this emissions unit.

March 21, 2000

IV. Reporting Requirements

1. The permittee shall submit quarterly reports which identify each period during which an exemption for ice-fog provided in 40 CFR 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. These reports shall be postmarked by April 30, July 30, October 30, and January 30 and shall cover the previous calendar quarter.

2. The permittee shall submit quarterly deviation reports to the Regional Air Pollution Control Agency that identify any exceedances of the following:

   a. For the first twelve months of operation following startup of these emissions units, the cumulative NOx, CO, SO2, and VOC emission rates from emissions units B001, B002, B003, B004, B005, B006, B007, and B008 combined.

   b. Beginning after the first twelve calendar months of operation following startup of these emissions units, the rolling, 12-month summation of the NOx, CO, SO2, and VOC emission limitations for emissions units B001, B002, B003, B004, B005, B006, B007, and B008 combined.

   c. Beginning after the first twelve calendar months of operation following startup of these emissions units B001, B002, B003, B004, B005, B006, B007, and B008, the rolling, 12-month operating hours limitations and, for the first 12 calendar months of operation following start up emissions units of B001, B002, B003, B004, B005, B006, B007, and B008, all exceedances of the maximum allowable cumulative operating hours levels.

   These reports shall be submitted in accordance with Section A.1. of the General Terms and Conditions of this permit.

3. The permittee shall submit, on a quarterly basis, copies of the permittee's or oil supplier's analyses for each shipment of number two fuel oil which is received for burning in this emissions unit. The permittee's or oil supplier's analyses shall document the sulfur content (percent) and heat content (Btu/gallon) for each shipment of oil. The following information shall also be included with the copies of the permittee's or oil supplier's analyses:

   a. The total quantity of oil received in each shipment (gallons).

   b. The weighted* average sulfur content (percent by weight) for the oil received during each calendar month.

c. The weighted* average heat content (Btu/gallon) of the oil received during each calendar month.

d. The weighted* average SO2 emission rate (lbs/mmBtu of actual heat input) of the oil combusted during each calendar month (the SO2 emission rate shall be calculated as specified in OAC rule 3745-18-04(F)).

* In proportion to the quantity of oil received in each shipment during each calendar month.

4. Continuous NOx Emissions Monitoring

a. Pursuant to OAC rules 3745-15-04, 3745-35-02, and ORC sections 3704.03(I) and 3704.031 and 40 CFR Parts 60.7 and 60.13(h), the permittee shall submit reports within 30 days following the end of each calendar quarter to the appropriate Ohio EPA District Office or local air agency documenting the date, commencement and completion time, duration, magnitude, reason (if known), and corrective actions taken (if any), of all instances of NOx values in excess of the applicable limits specified in the terms and conditions of this permit (29.9 lbs/hour and 25 ppmvd at 15% oxygen when burning natural gas and 46.7 lbs/hour and 42 ppmvd at 15% oxygen when burning number two fuel 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 appropriate Ohio EPA District Office or local air agency documenting any continuous NO_X 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 emissions unit operating time during the reporting period and the date, time, reason, and corrective action(s) taken for each time period of emissions unit, control equipment, and/or monitoring system malfunctions. The total operating time of the emissions unit and the total operating time of the analyzer while the emissions unit was on line also shall be included in the quarterly report. These quarterly excess emission reports shall be submitted by January 30, April 30, July 30, and October 30 of each year and shall address the data obtained during the previous calendar quarter.

5. Continuous CO Emissions Monitoring

a. Pursuant to OAC rules 3745-15-04, 3745-35-02, and ORC sections 3704.03(I) and 3704.031 and 40 CFR Parts 60.7 and 60.13(h), the permittee shall submit reports within 30 days following the end of each calendar quarter to the appropriate Ohio EPA District Office or local air agency documenting the date, commencement and completion times, duration, magnitude, reason (if known), and corrective actions taken (if any) of all instances of CO values in excess of any applicable limits specified in the terms and conditions of this permit (73.5 lbs/hour when burning natural gas, and 33.4 lbs/hour when burning number two fuel oil). These reports shall also contain the total CO 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 appropriate Ohio EPA District Office or local air agency documenting any continuous CO 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 emissions unit operating time during the reporting period and the date, time, reason, and corrective action(s) taken for each time period of emissions unit, control equipment, and/or monitoring system malfunctions. The total operating time of the emissions unit and the total operating time of the analyzer while the emissions unit was on line shall also be included in the quarterly report. These quarterly excess emission reports shall be submitted by January 30, April 30, July 30, and October 30 of each year and shall address the data obtained during the previous calendar quarter.

6. Pursuant to NSPS, the permittee is hereby advised of the requirement to report the following at the appropriate times:

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

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

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

d. Date of performance testing (at least 30 days prior to testing).

Reports are to be sent to:

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

and

Regional Air Pollution Control Agency
451 W. Third Street
P.O. Box 972
Dayton, Ohio 45422

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

8. The permittee shall submit annual reports which specify the total particulate, SO2, OC, and VOC emissions from this emissions unit for the previous calendar year. These reports shall be submitted by January 31 of each year.

V. Testing Requirements

1. Compliance with the emission limitation(s) in Section A.I. of these terms and conditions shall be determined in accordance with the following method(s):

a. Emission Limitation -

120 TPY NOx as a rolling, 12-month summation combined from emissions units B001, B002, B003, B004, B005, B006, B007, and B008.

Applicable Compliance Method -

Compliance shall be based upon record keeping as specified in A.III.1. and shall be determined through the use of CEMs as specified in A.III.3.

The monthly NOx emissions shall be added to the total NOx emissions from the previous eleven months to determine the rolling, 12-month summation of NOx emissions.

b. Emission Limitation -

249 TPY CO as a rolling, 12-month summation combined from emissions units B001, B002, B003, B004, B005, B006, B007, and B008

Applicable Compliance Method -

Compliance shall be based upon record keeping as specified in A.III.1. and shall be determined through the use of CEMs as specified in A.III.4.

The monthly CO emissions shall be added to the total CO emissions from the previous eleven months to determine the rolling, 12-month summation of CO emissions.

c. Emission Limitation -

5.7 TPY SO2 as a rolling, 12-month summation combined from emissions units B001, B002, B003, B004, B005, B006, B007, and B008

Applicable Compliance Method -

Compliance shall be based upon record keeping as specified in A.III.1. and shall be determined through a summation of the SO2 emissions from the burning of natural gas and number 2 fuel oil as follows:

i. The monthly SO2 emissions from the burning of natural gas shall be determined by multiplying the USEPA default value for pipeline natural gas (0.0006 lb SO2/mmBtu) by the combined actual heat input while burning of natural gas (mmBTU/month) in emissions units B001, B002, B003, B004, B005, B006, B007, and B008 and then divideing by 2,000 lbs/ton.

ii. The monthly SO2 emissions from the burning of number 2 fuel oil shall be determined by multiplying the operating hours while burning number 2 fuel oil for the month in emissions units B001, B002, B003, B004, B005,B006, B007, and B008 by the average percent sulfur of the fuel oil used during the period (or 0.05% sulfur) times the factor of 2 lbs of SO2 per lb of sulfur divided by the average heat content of the fuel burned during the period times the combined actual heat input while burning number 2 fuel oil in emissions units B001, B002, B003, B004, B005, B006, B007, and B008 (mmBTU/hr) and then divideing by 2,000 lbs/ton.

iii. The monthly SO2 emissions shall be added to the total SO2 emissions from the previous eleven months to determine the rolling, 12-month summation of SO2 emissions, using the USEPA default value for pipeline natural gas (0.0006 lb SO2/mmBtu) and fuel sampling analysis for fuel oil as determined in Section A.III.2.

d. Emission Limitation -

7.4 TPY VOC*** as a rolling, 12-month summation combined from emissions units B001, B002, B003, B004, B005, B006, B007, and B008

Applicable Compliance Method -

Compliance shall be based upon record keeping as specified in A.III.1. and shall be determined through a summation of the VOC emissions from the burning of natural gas

and number 2 fuel oil as follows:

i. The VOC*** emissions from the burning of natural gas shall be determined by multiplying the operating hours while burning natural gas for the month in emissions units B001, B002, B003, B004, B005, B006, B007, and B008 by the average emission rate (lbs VOC/hour) derived from the stack test conducted in accordance with term A.V.2. that are operating during the month and dividing by 2,000 lbs/ton.

ii. The VOC*** emissions from the burning of number 2 fuel oil shall be determined by multiplying the operating hours while burning number 2 fuel oil for the month in emissions units B001, B002, B003, B004, B005,B006, B007, and B008 by the average emission rate (lbs VOC/hour) derived from the stack test conducted in accordance with term A.V.2. that are operating during the month and dividing by 2,000 lbs/ton.

iii. The monthly VOC*** emissions shall be added to the total VOC emissions from the previous eleven months to determine the rolling, 12-month summation of VOC emissions, using the average emission rates derived from the stack test conducted in accordance with term A.V.2.

e. Emission Limitation -

Sulfur content of oil shall be equal to or less than 0.05 percent by weight sulfur.

Applicable Compliance Method -

Compliance shall be based upon the fuel oil analysis requirement specified in A.II.6 and the record keeping requirements specified in A.III.2.

f. Emission Limitation -

0.040 lb particulate emissions/mmBtu actual heat input

Applicable Compliance Method -

Compliance shall be demonstrated by the manufacturer's guaranteed emissions data.

g. Emission Limitation -

NOx emissions shall not exceed 29.9 lbs/hour and 25 ppmvd at 15% oxygen, when firing natural gas, based on a one-hour average.

NOx emissions shall not exceed 46.7 lbs/hour and 42 ppmvd at 15% oxygen, when firing number two fuel oil, based on a one-hour average.

Applicable Compliance Method -

Compliance with the NOx emission and concentration limitations shall be based upon the continuous emissions monitoring requirement and the monitoring/record keeping required by this permit.

h. Emission Limitation -

73.5 lbs CO/hour, when firing natural gas
33.4 lbs CO/hour, when firing number two fuel oil

Applicable Compliance Method -

Compliance with the CO emission limitation shall be based upon the continuous emissions monitoring requirement and the monitoring/record keeping required by this permit.

i. Emission Limitation -

0.06 lb SO2/mmBtu actual heat input

Applicable Compliance Method -

When firing number two fuel oil, compliance shall be based upon the fuel analysis and record keeping requirements specified in A.II.6. and A.III.2. and the use of the equations specified in OAC rule 3745-18-04(F).

When firing natural gas, compliance with this limitation will be assumed due to the negligible percent sulfur, by weight, in the fuel. If required, the permittee shall perform or require the supplier to perform an analysis of the natural gas for sulfur content in accordance with the appropriate ASTM method (such as, ASTM method D3031), or an equivalent method as approved by the Director, in order to demonstrate compliance with this emission limitation using the appropriate equation specified in AP-42 Table 3.1-1 (10/96).

j. Emission Limitation -

0.18 lb/hour SO2, when firing natural gas.
14.7 lbs/hour SO2, when firing number two fuel oil.

Applicable Compliance Method -

When firing natural gas, compliance shall be based upon multiplying the USEPA default value for pipeline natural gas by the maximum heat input capacity of this emissions unit. When firing number two fuel oil, compliance shall be based upon the fuel analysis and record keeping requirements specified in A.II.6. and A.III.2. and shall be determined by multiplying the sulfur dioxide emissions in lb SO2/mmBtu by the maximum heat input capacity of this emissions unit.

k. Emission Limitation -

2 lbs/hour VOC***, when firing natural gas.
2.7 lbs/hour VOC***, when firing number two fuel oil.

Applicable Compliance Method -

Compliance shall be based upon stack testing as required in A.V.2.

l. Emission Limitation -

17 lbs/hour OC, when firing natural gas.
10.61 lbs/hour OC, when firing number two fuel oil.

Applicable Compliance Method -

Compliance shall be based upon the record keeping requirements specified in A.III.1. and by manufacturer's guaranteed emissions data.

m. Emission Limitation -

60.1 TPY organic emissions combined from emissions units B001, B002, B003, B004, B005, B006, B007, and B008

Applicable Compliance Method -

Compliance shall be based upon record keeping as specified in A.III.1. and the manufacturer's guaranteed emissions data.

n. Emission Limitation -

2 lbs/hour particulate emissions, when firing natural gas.
7 lbs/hour particulate emissions, when firing number 2 fuel oil.

Applicable Compliance Method -

Compliance shall be demonstrated by manufacturer's guaranteed emissions data.

o. Emission Limitation -

8.9 TPY particulate emissions combined from emissions units B001, B002, B003, B004, B005, B006, B007, and B008

Applicable Compliance Method -

Compliance shall be based upon record keeping as specified in A.III.1. and the manufacturer's guaranteed emissions data.

p. Emission Limitation -

10% opacity visible emissions, as a 6-minute average

Applicable Compliance Method -

Compliance shall be determined through visible emissions observations performed in accordance with OAC rule 3745-17-03(B)(1) using the methods and procedures specified in USEPA Reference Method 9.

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

a. The emission testing shall be conducted within 90 days following startup of the emissions unit.

b. The emission testing shall be conducted to demonstrate compliance with the VOC*** emission limitation~~s~~.

***the permittee has requested that if the average emissions rate (lbs/hour) derived from the stack test conducted in accordance with this term is less than the permit VOC allowable listed in term A.I.1., it may apply for an air permit to install modification to increase the hours of operation. The permittee realizes that this modification might trigger the requirement to secure either an administrative or a new air permit to install.

c. The following test method(s) shall be employed to demonstrate compliance with the allowable mass emission rate(s):

for VOC, Method 18 or 25 of 40 CFR Part 60, Appendix A.

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

d. The test(s) shall be conducted while the emissions unit is operating at or near its maximum capacity, unless otherwise specified or approved by the appropriate Ohio EPA District Office or local air agency.

Not later than 30 days prior to the proposed test date(s), the permittee shall submit an "Intent to Test" notification to the appropriate Ohio EPA District Office or local air agency. 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 test(s), and the person(s) who will be conducting the test(s). Failure to submit such notification for review and approval prior to the test(s) may result in the Ohio EPA District Office's or local air agency's refusal to accept the results of the emission test(s).

Personnel from the appropriate Ohio EPA District Office or local air agency shall be permitted to witness the test(s), examine the testing equipment, and acquire data and information necessary to ensure that the operation of the emissions unit and the testing procedures provide a valid characterization of the emissions from the emissions unit and/or the performance of the control equipment.

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

VI. Miscellaneous Requirements

None.

March 21, 2000

B. State Only Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

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

Operations, Property, and/or Equipment	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
Natural gas and number two fuel oil-fired, simple cycle, combustion turbine, having a nominal capacity of 269.71 mmBtu/hr (25 MW), controlled with a water injection nitrogen oxides reduction system; G1CT1 - Generator No. 1, Turbine No. 1	None	None

2. Additional Terms and Conditions

None.

II. Operational Restrictions

None.

III. Monitoring and/or Recordkeeping Requirements

None.

IV. Reporting Requirements

None.

V. Testing Requirements

March 21, 2000

None.

March 21, 2000

VI. Miscellaneous Requirements

None.

March 21, 2000

Part III - SPECIAL TERMS AND CONDITIONS FOR SPECIFIC EMISSIONS UNIT(S) [Continued]

A. State and Federally Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

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

Operations, Property, and/or Equipment	Applicable Rules/Requirements	OAC rule 3745-17-11(B)(4)
Natural gas and number two fuel oil-fired, simple cycle, combustion turbine, having a nominal capacity of 269.71 mmBtu/hr (25 MW), controlled with a water injection nitrogen oxides reduction system; G1CT1 - Generator No. 1, Turbine No. 1	OAC rule 3745-31-05(D)	
		OAC rule 3745-31-05(A)(3)
	40 CFR Part 75	

		Applicable Emissions Limitations/Control Measures
	OAC rule 3745-17-07(A) OAC rule 3745-18-06(F) 40 CFR Part 60, Subpart GG OAC rule 3745-21-08(B) OAC rule 3745-23-06(B)	120 TPY NOx as a rolling, 12-month summation combined from emissions units B001, B002, B003, B004, B005, B006, B007, and B008. 249 TPY CO as a rolling, 12-month summation combined from emissions units B001, B002, B003, B004, B005, B006, B007, and B008. 5.7 TPY SO2 as a rolling, 12-month summation combined from emissions units B001, B002, B003, B004, B005, B006, B007, and B008. 7.4 TPY VOC*as a rolling, 12-month summation combined from emissions units B001, B002, B003, B004, B005, B006, B007, and B008. See Sections A.II.6 and A.III.2. for the specific monitoring and record keeping requirements and Section A.IV.3. for the specific reporting requirements. 0.040 lb particulate emissions/mmBtu actual heat input NOx emissions shall not exceed 29.9 lbs/hour and 25 ppmvd at 15% oxygen when firing natural gas, based on a one-hour average as determined through CEMs.

NOx emissions shall not exceed 46.7 lbs/hour and 42 ppmvd at 15% oxygen when firing number two fuel oil, based on a one-hour average as determined through CEMs.

120 TPY NOx combined from B001, B002, B003, B004, B005, B006, B007, and B008.

CO emissions shall not exceed 73.5 lbs/hour when firing natural gas.

CO emissions shall not exceed 33.4 lbs/hour when firing number two fuel oil.

0.06 lb SO2/mmBtu actual heat input

The permittee shall combust oil that contains equal to or less than 0.05 percent by weight sulfur.

0.18 lb/hour SO2 when firing natural gas.

14.7 lbs/hour SO2 when firing number two fuel oil.

2 lbs/hour VOC*, when firing natural gas.

2.7 lbs/hour VOC*, when firing number two fuel oil.

17 lbs/hour OC, when firing natural gas.

10.61 lbs/hour OC, when firing number two fuel oil.

60.1 TPY OC emissions combined from emissions units B001, B002, B003, B004, B005, B006, B007, and B008.

2 lbs/hour particulate emissions when firing natural gas.

7 lbs/hour particulate emissions when firing number 2 fuel oil.

8.9 TPY particulate emissions combined from emissions units B001, B002, B003, B004, B005, B006, B007, and B008.

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

The requirements of this rule also include compliance with the requirements of OAC rule 3745-17-11(B)(4).

The emission limitations from these rules are less stringent than the emission limitations established pursuant to OAC rule 3745-31-05(A)(3) and 3745-31-05(D).

* the permittee has submitted emissions data that supports for purposes of avoiding both federal 112(g) and state of Ohio OAC rule 3745-31-28 regulations that all Hazardous Air Pollutants (HAPs) are less than VOC emissions.

2. Additional Terms and Conditions

2.a Compliance with OAC rule 3745-31-05(A)(3) shall be demonstrated through the use of water injection to reduce nitrogen oxides emissions to 25 ppmvd when burning natural gas and 42 ppmvd when burning number two fuel oil, and the 120 TPY NOx allowable.

2.b In lieu of the requirements of 40 CFR Part 60.334(a) (Subpart GG) to install and operate a continuous monitoring system to monitor the ratio of water to fuel being fired in each turbine, the permittee shall install and operate NOx continuous emissions monitoring system for this emissions unit.

2.c In lieu of monitoring the nitrogen content of the natural gas being fired in the turbine as required by 40 CFR 60 Subpart GG (section 60.334(b)), the permittee shall install and operate systems to continuously monitor and record emissions of NOx from this emissions unit.

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

2.e In lieu of the test methods and procedures required under 40 CFR Part 60.335, the permittee shall follow the testing and Continuous Emissions Monitoring requirements for this emissions unit in accordance with this permit.

2.f Start-up shall be defined as the time necessary to bring a turbine on line from a no load condition to synchronization and shall not exceed a maximum of 15 minutes. Shutdown periods shall not exceed 15 minutes.

II. Operational Restrictions

1. To ensure enforceability during the first twelve calendar months of operation following startup of emissions units B001, B002, B003, B004, B005, B006, B007, and B008, the permittee shall not exceed the cumulative NOx emission rates specified in the following table:

Month	Cumulative Summation of the NOx emission rate (TPY)
1	40
1 - 2	80
1 - 3	120
1 - 4	120
1 - 5	120

1 - 6	120
1 - 7	120
1 - 8	120
1 - 9	120
1 - 10	120
1 - 11	120
1 - 12	120

After the first 12 calendar months of operation following startup of emissions units B001, B002, B003, B004, B005, B006, B007, and B008, compliance with the annual emission limitation shall be based upon a rolling, 12-month summation.

2. To ensure enforceability during the first twelve calendar months of operation following startup of emissions units B001, B002, B003, B004, B005, B006, B007, and B008, the permittee shall not exceed the cumulative CO emission rates specified in the following table:

Month	Cumulative Summation of the CO emission rate (TPY)
1	83
1 - 2	166
1 - 3	249
1 - 4	249
1 - 5	249
1 - 6	249
1 - 7	249
1 - 8	249
1 - 9	249
1 - 10	249
1 - 11	249
1 - 12	249

After the first 12 calendar months of operation following startup of emissions units B001, B002, B003, B004, B005, B006, B007, and B008, compliance with the annual emission limitation shall be based upon a rolling, 12-month summation.

3. To ensure enforceability during the first twelve calendar months of operation following startup of emissions units B001, B002, B003, B004, B005, B006, B007, and B008, the permittee shall not exceed the cumulative SO2 emission rates specified in the following table:

Month	Cumulative Summation of the SO2 emission rate (TPY)
1	1.14
1 - 2	2.28
1 - 3	3.42

1 - 4	4.56
1 - 5	5.7
1 - 6	5.7
1 - 7	5.7
1 - 8	5.7
1 - 9	5.7
1 - 10	5.7
1 - 11	5.7
1 - 12	5.7

After the first 12 calendar months of operation following startup of emissions units B001, B002, B003, B004, B005, B006, B007, and B008, compliance with the annual emission limitation shall be based upon a rolling, 12-month summation.

4. To ensure enforceability during the first twelve calendar months of operation following startup of emissions units B001, B002, B003, B004, B005, B006, B007, and B008, the permittee shall not exceed the cumulative VOC emission rates specified in the following table:

Month	Cumulative Summation of the VOC emission rate (TPY)
1	2.5
1 - 2	4.9
1 - 3	7.4
1 - 4	7.4
1 - 5	7.4
1 - 6	7.4
1 - 7	7.4
1 - 8	7.4
1 - 9	7.4
1 - 10	7.4
1 - 11	7.4
1 - 12	7.4

After the first 12 calendar months of operation following startup of emissions units B001, B002, B003, B004, B005, B006, B007, and B008, compliance with the annual emission limitation shall be based upon a rolling, 12-month summation.

5. The maximum annual operating hours for emissions units B001, B002, B003, B004, B005, B006, B007, and B008 shall not exceed 6,434** while burning natural gas and 694** while burning fuel

oil no. 2., based upon a rolling, 12-month summation of the operating hours.

To ensure enforceability during the first twelve calendar months of operation following startup of emissions units B001, B002, B003, B004, B005, B006, B007, and B008, the permittee shall not exceed the cumulative operating hours levels specified in the following table:

Month	Maximum Allowable Cumulative Operating Hours While Burning Natural Gas**	Maximum Allowable Cumulative Operating Hours While Burning Fuel Oil No. 2**
1	2,145	231
1 - 2	4,289	463
1 - 3	6,434	694
1 - 4	6,434	694
1 - 5	6,434	694
1 - 6	6,434	694
1 - 7	6,434	694
1 - 8	6,434	694
1 - 9	6,434	694
1 - 10	6,434	694
1 - 11	6,434	694
1 - 12	6,434	694

** the permittee may combust 1.37 additional hours of natural gas for every hour fuel oil not combusted, up to 7, 386 hours annually of natural gas combustion.

After the first 12 calendar months of operation following startup of emissions units B001, B002, B003, B004, B005, B006, B007, and B008, compliance with the annual operating hours limitation shall be based upon a rolling, 12-month summation of the operating hours.

6. The quality of number two fuel oil burned in this emissions unit shall have a combination of heat and sulfur content which is sufficient to comply with the allowable sulfur dioxide emission limitation.

Compliance with the above mentioned specification shall be determined by using analytical results provided by the permittee or oil supplier for each shipment of oil. The permittee shall perform or require the supplier to perform the analyses for sulfur content and heat content in accordance with

the following ASTM methods: ASTM method D4294, ASTM method D240, or ASTM method 6010 for sulfur content; and ASTM method D240 for heat content. The newest or most recent revisions to the applicable test method shall be used for analyses. Alternative, equivalent methods may be used upon written approval by the Ohio EPA District Office or local air agency.

7. The permittee shall burn only pipeline natural gas, and/or number two fuel oil in this emissions unit.

III. Monitoring and/or Record keeping Requirements

1. The permittee shall maintain monthly records of the following information:

   a. The amount of number two fuel oil burned, in gallons.

   b. The amount of natural gas burned, in cubic feet.

   c. The summation of the operating hours from emissions units B001, B002, B003, B004, B005, B006, B007, and B008 combined, in hours /month when burning natural gas and/or when burning fuel oil no. 2.

   d. During the first twelve calendar months of operation following startup, the cumulative operating hours for each calendar month when burning natural gas and/or when burning fuel oil no. 2. Following the first twelve calendar months of operation following startup, the rolling, 12-month summation of the operating hours from emissions units B001, B002, B003, B004, B005, B006, B007, and B008 combined, in hours/rolling, 12-month period when burning natural gas and/or when burning fuel oil no. 2.

   e. The summation of the NOx emissions from emissions units B001, B002, B003, B004, B005, B006, B007, and B008 combined, in tons/month.

   f. During the first twelve calendar months of operation following startup, the cumulative NOx emissions for each calendar month. Following the first twelve calendar months of operation following startup, the rolling, 12-month summation of the NOx emissions from emissions units B001, B002, B003, B004, B005, B006, B007, and B008 combined, in tons/rolling, 12-month period.

   g. The summation of the CO emissions from emissions units B001, B002, B003, B004, B005, B006, B007, and B008 combined, in tons/month.

   h. During the first twelve calendar months of operation following startup, the cumulative CO emissions for each calendar month. Following the first twelve calendar months of operation following startup, the rolling, 12-month summation of the CO emissions from emissions units B001, B002, B003, B004, B005, B006, B007, and B008 combined, in tons/rolling, 12-month period.

   i. The summation of the SO2 emissions from emissions units B001, B002, B003, B004,

B005, B006, B007, and B008 combined, in tons/month.

j. During the first twelve calendar months of operation following startup, the cumulative SO2 emissions for each calendar month. Following the first twelve calendar months of operation following startup, The rolling, 12-month summation of the SO2 emissions from emissions units B001, B002, B003, B004, B005, B006, B007, and B008 combined, in tons/rolling, 12-month period.

k. The summation of the VOC emissions from emissions units B001, B002, B003, B004, B005, B006, B007, and B008 combined, in tons/month.

l. During the first twelve calendar months of operation following startup, the cumulative VOC emissions for each calendar month. Following the first twelve calendar months of operation following startup, The rolling, 12-month summation of the VOC emissions from emissions units B001, B002, B003, B004, B005, B006, B007, and B008 combined, in tons/rolling, 12-month period.

2. The permittee shall monitor the sulfur content of the fuel oil being fired in the turbine. The frequency of monitoring shall be determined as follows:

a. If the turbine is supplied fuel oil from a bulk storage tank, the values shall be determined on each occasion that fuel oil is transferred to the storage tank from any other source.

b. If the turbine is supplied its fuel oil without intermediate bulk storage the values shall be determined and recorded daily. Owners, operators or fuel vendors may develop custom fuel schedules for the determination of the values based on the design and operation of the affected facility and the characteristics of the fuel supply. These custom schedules shall be substantiated with data and must be approved by the Ohio EPA, Central Office before they can be used.

c. For each shipment of oil received for burning in this emissions unit, the permittee shall maintain records of the total quantity of oil received and the permittee's or oil supplier's analyses for sulfur content and heat content.

3. <u>Continuous NOx Monitoring</u>

a. Prior to the installation of the continuous NOx monitoring system, the permittee shall submit information detailing the proposed location of the sampling site in accordance with the siting requirements in 40 CFR Part 60, Appendix B,

Performance Specification 6 for approval by the Ohio EPA, Central Office.

b. Within 60 days of the startup of this emissions unit, the permittee shall conduct certification tests of such equipment pursuant to ORC section 3704.03(I) and 40 CFR Part 60, Appendix B, Performance Specification 6, and/or 40 CFR Part 75. Personnel from the Regional Air Pollution Control Agency shall be notified 30 days prior to initiation of the applicable tests and shall be permitted to examine equipment and witness the certification tests. In accordance with OAC rule 3745-15-04, all copies of the test results shall be submitted to the Regional Air Pollution Control Agency within 30 days after the test is completed. Copies of the test results shall be sent to the Regional Air Pollution Control Agency and the Ohio EPA Central Office. Certification of the continuous NOx monitoring system shall be granted upon determination by the Ohio EPA Central Office that the system meets all requirements of ORC section 3704.03(I) and 40 CFR Part 60, Appendix B, Performance Specification 6 and/or 40 CFR Part 75.

c. The permittee shall operate and maintain existing equipment to continuously monitor and record NOx from this emissions unit in units of the applicable standard. Such continuous monitoring and recording equipment shall comply with the requirements specified in 40 CFR Part 60.13 and/or 40 CFR Part 75.

d. 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 units of the applicable standard in the appropriate averaging period (e.g., hourly), results of daily zero/span calibration checks, and magnitude of manual calibration adjustments.

e. Within 180 days of the effective date of this permit, the permittee shall develop 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 standard. 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 logbook dedicated to the continuous NOx monitoring system must be kept on site and available for inspection during regular office hours.

4. Continuous CO Monitoring

a. Prior to the installation of the continuous CO monitoring system, the permittee shall submit information detailing the proposed location of the sampling site in accordance with the siting requirements in 40 CFR Part 60, Appendix B, Performance Specification 4 and 6 for approval by the Ohio EPA, Central Office.

b. Within 60 days of the startup of this emissions unit, the permittee shall conduct certification tests of the continuous CO monitoring system pursuant to ORC section 3704.03(I), 40 CFR Part 60, Appendix B, Performance Specification 4 and 6. Personnel from the appropriate Ohio EPA District Office or local air agency shall be notified 30 days prior to initiation of the applicable tests and shall be permitted to examine equipment and witness the certification tests. In accordance with OAC rule 3745-15-04, all copies of the test results shall be submitted to the appropriate Ohio EPA District Office or local air agency within 30 days after the test is completed. Copies of the test results shall be sent to the appropriate Ohio EPA District Office or local air agency and the Ohio EPA, Central Office. Certification of the continuous CO monitoring system shall be granted upon determination by the Ohio EPA Central Office that the system meets all requirements of ORC section 3704.03(I) and 40 CFR Part 60, Appendix B, Performance Specification 4 and 6 and/or 40 CFR Part 75.

c. The permittee shall operate and maintain equipment to continuously monitor and record CO from this emissions unit in units of the applicable standard. Such continuous monitoring and recording equipment shall comply with the requirements specified in 40 CFR Part 60.13 and/or 40 CFR Part 75.

d. The permittee shall maintain records of all data obtained by the continuous CO monitoring system including, but not limited to, emissions of CO in units of the applicable standard in the appropriate averaging period (e.g., hourly), results of daily zero/span calibration checks, and magnitude of manual calibration adjustments.

e. Within 180 days of the effective date of this permit, the permittee shall develop a written quality assurance/quality control plan for the continuous CO monitoring system designed to ensure continuous valid and representative readings of CO. The plan shall follow the requirements of 40 CFR Part 60, Appendix F. The quality assurance/quality control plan and a logbook dedicated to the continuous CO monitoring system must be kept on site and available for inspection during regular office hours.

5. When the emissions unit is combusting natural gas or number two fuel oil and the nitrogen oxides continuous monitoring system is not operational, the permittee shall provide nitrogen oxide missing data pursuant to the provisions listed in 40 CFR Part 75.

6. For each day during which the permittee burns a fuel other than pipeline natural gas, and/or number two fuel oil, the permittee shall maintain a record of the type and quantity of fuel burned in this emissions unit.

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IV. Reporting Requirements

1. The permittee shall submit quarterly reports which identify each period during which an exemption for ice-fog provided in 40 CFR 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. These reports shall be postmarked by April 30, July 30, October 30, and January 30 and shall cover the previous calendar quarter.

2. The permittee shall submit quarterly deviation reports to the Regional Air Pollution Control Agency that identify any exceedances of the following:

   a. For the first twelve months of operation following startup of these emissions units, the cumulative NOx, CO, SO2, and VOC emission rates from emissions units B001, B002, B003, B004, B005, B006, B007, and B008 combined.

   b. Beginning after the first twelve calendar months of operation following startup of these emissions units, the rolling, 12-month summation of the NOx, CO, SO2, and VOC emission limitations for emissions units B001, B002, B003, B004, B005, B006, B007, and B008 combined.

   c. Beginning after the first twelve calendar months of operation following startup of these emissions units B001, B002, B003, B004, B005, B006, B007, and B008, the rolling, 12-month operating hours limitations and, for the first 12 calendar months of operation following start up emissions units of B001, B002, B003, B004, B005, B006, B007, and B008, all exceedances of the maximum allowable cumulative operating hours levels.

   These reports shall be submitted in accordance with Section A.1. of the General Terms and Conditions of this permit.

3. The permittee shall submit, on a quarterly basis, copies of the permittee's or oil supplier's analyses for each shipment of number two fuel oil which is received for burning in this emissions unit. The permittee's or oil supplier's analyses shall document the sulfur content (percent) and heat content (Btu/gallon) for each shipment of oil. The following information shall also be included with the copies of the permittee's or oil supplier's analyses:

   a. The total quantity of oil received in each shipment (gallons).

   b. The weighted* average sulfur content (percent by weight) for the oil received during each calendar month.

c. The weighted* average heat content (Btu/gallon) of the oil received during each calendar month.

d. The weighted* average SO2 emission rate (lbs/mmBtu of actual heat input) of the oil combusted during each calendar month (the SO2 emission rate shall be calculated as specified in OAC rule 3745-18-04(F)).

* In proportion to the quantity of oil received in each shipment during each calendar month.

4. Continuous NOx Emissions Monitoring

a. Pursuant to OAC rules 3745-15-04, 3745-35-02, and ORC sections 3704.03(I) and 3704.031 and 40 CFR Parts 60.7 and 60.13(h), the permittee shall submit reports within 30 days following the end of each calendar quarter to the appropriate Ohio EPA District Office or local air agency documenting the date, commencement and completion time, duration, magnitude, reason (if known), and corrective actions taken (if any), of all instances of NOx values in excess of the applicable limits specified in the terms and conditions of this permit (29.9 lbs/hour and 25 ppmvd at 15% oxygen when burning natural gas and 46.7 lbs/hour and 42 ppmvd at 15% oxygen when burning number two fuel 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 appropriate Ohio EPA District Office or local air agency documenting any continuous NO_X 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 emissions unit operating time during the reporting period and the date, time, reason, and corrective action(s) taken for each time period of emissions unit, control equipment, and/or monitoring system malfunctions. The total operating time of the emissions unit and the total operating time of the analyzer while the emissions unit was on line also shall be included in the quarterly report. These quarterly excess emission reports shall be submitted by January 30, April 30, July 30, and October 30 of each year and shall address the data obtained during the previous calendar quarter.

5. Continuous CO Emissions Monitoring

a. Pursuant to OAC rules 3745-15-04, 3745-35-02, and ORC sections 3704.03(I) and 3704.031 and 40 CFR Parts 60.7 and 60.13(h), the permittee shall submit reports within 30 days following the end of each calendar quarter to the appropriate Ohio EPA District Office or local air agency documenting the date, commencement and completion times, duration, magnitude, reason (if known), and corrective actions taken (if any) of all instances of CO values in excess of any applicable limits specified in the terms and conditions of this permit (73.5 lbs/hour when burning natural gas, and 33.4 lbs/hour when burning number two fuel oil). These reports shall also contain the total CO 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 appropriate Ohio EPA District Office or local air agency documenting any continuous CO 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 emissions unit operating time during the reporting period and the date, time, reason, and corrective action(s) taken for each time period of emissions unit, control equipment, and/or monitoring system malfunctions. The total operating time of the emissions unit and the total operating time of the analyzer while the emissions unit was on line shall also be included in the quarterly report. These quarterly excess emission reports shall be submitted by January 30, April 30, July 30, and October 30 of each year and shall address the data obtained during the previous calendar quarter.

6. Pursuant to NSPS, the permittee is hereby advised of the requirement to report the following at the appropriate times:

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

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

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

d. Date of performance testing (at least 30 days prior to testing).

Reports are to be sent to:

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

and

Regional Air Pollution Control Agency
451 W. Third Street
P.O. Box 972
Dayton, Ohio 45422

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

8. The permittee shall submit annual reports which specify the total particulate, SO2, OC, and VOC emissions from this emissions unit for the previous calendar year. These reports shall be submitted by January 31 of each year.

V. Testing Requirements

1. Compliance with the emission limitation(s) in Section A.I. of these terms and conditions shall be determined in accordance with the following method(s):

a. Emission Limitation -

120 TPY NOx as a rolling, 12-month summation combined from emissions units B001, B002, B003, B004, B005, B006, B007, and B008.

Applicable Compliance Method -

Compliance shall be based upon record keeping as specified in A.III.1. and shall be determined through the use of CEMs as specified in A.III.3.

The monthly NOx emissions shall be added to the total NOx emissions from the previous eleven months to determine the rolling, 12-month summation of NOx emissions.

b. Emission Limitation -

249 TPY CO as a rolling, 12-month summation combined from emissions units B001, B002, B003, B004, B005, B006, B007, and B008

Applicable Compliance Method -

Compliance shall be based upon record keeping as specified in A.III.1. and shall be determined through the use of CEMs as specified in A.III.4.

The monthly CO emissions shall be added to the total CO emissions from the previous eleven months to determine the rolling, 12-month summation of CO emissions.

c. Emission Limitation -

5.7 TPY SO2 as a rolling, 12-month summation combined from emissions units B001, B002, B003, B004, B005, B006, B007, and B008

Applicable Compliance Method -

Compliance shall be based upon record keeping as specified in A.III.1. and shall be determined through a summation of the SO2 emissions from the burning of natural gas and number 2 fuel oil as follows:

i. The monthly SO2 emissions from the burning of natural gas shall be determined by multiplying the USEPA default value for pipeline natural gas (0.0006 lb SO2/mmBtu) by the combined actual heat input while burning of natural gas (mmBTU/month) in emissions units B001, B002, B003, B004, B005, B006, B007, and B008 and then divideing by 2,000 lbs/ton.

ii. The monthly SO2 emissions from the burning of number 2 fuel oil shall be determined by multiplying the operating hours while burning number 2 fuel oil for the month in emissions units B001, B002, B003, B004, B005,B006, B007, and B008 by the average percent sulfur of the fuel oil used during the period (or 0.05% sulfur) times the factor of 2 lbs of SO2 per lb of sulfur divided by the average heat content of the fuel burned during the period times the combined actual heat input while burning number 2 fuel oil in emissions units B001, B002, B003, B004, B005, B006, B007, and B008 (mmBTU/hr) and then divideing by 2,000 lbs/ton.

iii. The monthly SO2 emissions shall be added to the total SO2 emissions from the previous eleven months to determine the rolling, 12-month summation of SO2 emissions, using the USEPA default value for pipeline natural gas (0.0006 lb SO2/mmBtu) and fuel sampling analysis for fuel oil as determined in Section A.III.2.

d. Emission Limitation -

7.4 TPY VOC*** as a rolling, 12-month summation combined from emissions units B001, B002, B003, B004, B005, B006, B007, and B008

Applicable Compliance Method -

Compliance shall be based upon record keeping as specified in A.III.1. and shall be determined through a summation of the VOC emissions from the burning of natural gas

and number 2 fuel oil as follows:

i. The VOC*** emissions from the burning of natural gas shall be determined by multiplying the operating hours while burning natural gas for the month in emissions units B001, B002, B003, B004, B005, B006, B007, and B008 by the average emission rate (lbs VOC/hour) derived from the stack test conducted in accordance with term A.V.2. that are operating during the month and dividing by 2,000 lbs/ton.

ii. The VOC*** emissions from the burning of number 2 fuel oil shall be determined by multiplying the operating hours while burning number 2 fuel oil for the month in emissions units B001, B002, B003, B004, B005,B006, B007, and B008 by the average emission rate (lbs VOC/hour) derived from the stack test conducted in accordance with term A.V.2. that are operating during the month and dividing by 2,000 lbs/ton.

iii. The monthly VOC*** emissions shall be added to the total VOC emissions from the previous eleven months to determine the rolling, 12-month summation of VOC emissions, using the average emission rates derived from the stack test conducted in accordance with term A.V.2.

e. Emission Limitation -

Sulfur content of oil shall be equal to or less than 0.05 percent by weight sulfur.

Applicable Compliance Method -

Compliance shall be based upon the fuel oil analysis requirement specified in A.II.6 and the record keeping requirements specified in A.III.2.

f. Emission Limitation -

0.040 lb particulate emissions/mmBtu actual heat input

Applicable Compliance Method -

Compliance shall be demonstrated by the manufacturer's guaranteed emissions data.

g. Emission Limitation -

NOx emissions shall not exceed 29.9 lbs/hour and 25 ppmvd at 15% oxygen, when firing natural gas, based on a one-hour average.

NOx emissions shall not exceed 46.7 lbs/hour and 42 ppmvd at 15% oxygen, when firing number two fuel oil, based on a one-hour average.

Applicable Compliance Method -

Compliance with the NOx emission and concentration limitations shall be based upon the continuous emissions monitoring requirement and the monitoring/record keeping required by this permit.

h. Emission Limitation -

73.5 lbs CO/hour, when firing natural gas
33.4 lbs CO/hour, when firing number two fuel oil

Applicable Compliance Method -

Compliance with the CO emission limitation shall be based upon the continuous emissions monitoring requirement and the monitoring/record keeping required by this permit.

i. Emission Limitation -

0.06 lb SO2/mmBtu actual heat input

Applicable Compliance Method -

When firing number two fuel oil, compliance shall be based upon the fuel analysis and record keeping requirements specified in A.II.6. and A.III.2. and the use of the equations specified in OAC rule 3745-18-04(F).

When firing natural gas, compliance with this limitation will be assumed due to the negligible percent sulfur, by weight, in the fuel. If required, the permittee shall perform or require the supplier to perform an analysis of the natural gas for sulfur content in accordance with the appropriate ASTM method (such as, ASTM method D3031), or an equivalent method as approved by the Director, in order to demonstrate compliance with this emission limitation using the appropriate equation specified in AP-42 Table 3.1-1 (10/96).

j. Emission Limitation -

0.18 lb/hour SO2, when firing natural gas.
14.7 lbs/hour SO2, when firing number two fuel oil.

Applicable Compliance Method -

When firing natural gas, compliance shall be based upon multiplying the USEPA default value for pipeline natural gas by the maximum heat input capacity of this emissions unit. When firing number two fuel oil, compliance shall be based upon the fuel analysis and record keeping requirements specified in A.II.6. and A.III.2. and shall be determined by multiplying the sulfur dioxide emissions in lb SO2/mmBtu by the maximum heat input capacity of this emissions unit.

k. Emission Limitation -

2 lbs/hour VOC***, when firing natural gas.
2.7 lbs/hour VOC***, when firing number two fuel oil.

Applicable Compliance Method -

Compliance shall be based upon stack testing as required in A.V.2.

l. Emission Limitation -

17 lbs/hour OC, when firing natural gas.
10.61 lbs/hour OC, when firing number two fuel oil.

Applicable Compliance Method -

Compliance shall be based upon the record keeping requirements specified in A.III.1. and by manufacturer's guaranteed emissions data.

m. Emission Limitation -

60.1 TPY organic emissions combined from emissions units B001, B002, B003, B004, B005, B006, B007, and B008

Applicable Compliance Method -

Compliance shall be based upon record keeping as specified in A.III.1. and the manufacturer's guaranteed emissions data.

n. Emission Limitation -

2 lbs/hour particulate emissions, when firing natural gas.
7 lbs/hour particulate emissions, when firing number 2 fuel oil.

Applicable Compliance Method -

Compliance shall be demonstrated by manufacturer's guaranteed emissions data.

o. Emission Limitation -

8.9 TPY particulate emissions combined from emissions units B001, B002, B003, B004, B005, B006, B007, and B008

Applicable Compliance Method -

Compliance shall be based upon record keeping as specified in A.III.1. and the manufacturer's guaranteed emissions data.

p. Emission Limitation -

10% opacity visible emissions, as a 6-minute average

Applicable Compliance Method -

Compliance shall be determined through visible emissions observations performed in accordance with OAC rule 3745-17-03(B)(1) using the methods and procedures specified in USEPA Reference Method 9.

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

a. The emission testing shall be conducted within 90 days following startup of the emissions unit.

b. The emission testing shall be conducted to demonstrate compliance with the VOC*** emission limitation~~s~~.

***the permittee has requested that if the average emissions rate (lbs/hour) derived from the stack test conducted in accordance with this term is less than the permit VOC allowable listed in term A.I.1., it may apply for an air permit to install modification to increase the hours of operation. The permittee realizes that this modification might trigger the requirement to secure either an administrative or a new air permit to install.

c. The following test method(s) shall be employed to demonstrate compliance with the allowable mass emission rate(s):

for VOC, Method 18 or 25 of 40 CFR Part 60, Appendix A.

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

d. The test(s) shall be conducted while the emissions unit is operating at or near its maximum capacity, unless otherwise specified or approved by the appropriate Ohio EPA District Office or local air agency.

Not later than 30 days prior to the proposed test date(s), the permittee shall submit an "Intent to Test" notification to the appropriate Ohio EPA District Office or local air agency. 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 test(s), and the person(s) who will be conducting the test(s). Failure to submit such notification for review and approval prior to the test(s) may result in the Ohio EPA District Office's or local air agency's refusal to accept the results of the emission test(s).

Personnel from the appropriate Ohio EPA District Office or local air agency shall be permitted to witness the test(s), examine the testing equipment, and acquire data and information necessary to ensure that the operation of the emissions unit and the testing procedures provide a valid characterization of the emissions from the emissions unit and/or the performance of the control equipment.

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

VI. Miscellaneous Requirements

None.

March 21, 2000

B. State Only Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

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

Operations, Property, and/or Equipment	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
Natural gas and number two fuel oil-fired, simple cycle, combustion turbine, having a nominal capacity of 269.71 mmBtu/hr (25 MW), controlled with a water injection nitrogen oxides reduction system; G1CT1 - Generator No. 1, Turbine No. 1	None	None

2. Additional Terms and Conditions

None.

II. Operational Restrictions

None.

III. Monitoring and/or Recordkeeping Requirements

None.

IV. Reporting Requirements

None.

V. Testing Requirements

March 21, 2000

None.

March 21, 2000

VI. Miscellaneous Requirements

None.

March 21, 2000

Part III - SPECIAL TERMS AND CONDITIONS FOR SPECIFIC EMISSIONS UNIT(S) [Continued]

A. State and Federally Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

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

Operations, Property, and/or Equipment	Applicable Rules/Requirements	OAC rule 3745-17-11(B)(4)
Natural gas and number two fuel oil-fired, simple cycle, combustion turbine, having a nominal capacity of 269.71 mmBtu/hr (25 MW), controlled with a water injection nitrogen oxides reduction system; G1CT1 - Generator No. 1, Turbine No. 1	OAC rule 3745-31-05(D)	
		OAC rule 3745-31-05(A)(3)
	40 CFR Part 75	

		Applicable Emissions Limitations/Control Measures
	OAC rule 3745-17-07(A) OAC rule 3745-18-06(F) 40 CFR Part 60, Subpart GG OAC rule 3745-21-08(B) OAC rule 3745-23-06(B)	120 TPY NOx as a rolling, 12-month summation combined from emissions units B001, B002, B003, B004, B005, B006, B007, and B008. 249 TPY CO as a rolling, 12-month summation combined from emissions units B001, B002, B003, B004, B005, B006, B007, and B008. 5.7 TPY SO2 as a rolling, 12-month summation combined from emissions units B001, B002, B003, B004, B005, B006, B007, and B008. 7.4 TPY VOC*as a rolling, 12-month summation combined from emissions units B001, B002, B003, B004, B005, B006, B007, and B008. See Sections A.II.6 and A.III.2. for the specific monitoring and record keeping requirements and Section A.IV.3. for the specific reporting requirements. 0.040 lb particulate emissions/mmBtu actual heat input NOx emissions shall not exceed 29.9 lbs/hour and 25 ppmvd at 15% oxygen when firing natural gas, based on a one-hour average as determined through CEMs.

NOx emissions shall not exceed 46.7 lbs/hour and 42 ppmvd at 15% oxygen when firing number two fuel oil, based on a one-hour average as determined through CEMs.

120 TPY NOx combined from B001, B002, B003, B004, B005, B006, B007, and B008.

CO emissions shall not exceed 73.5 lbs/hour when firing natural gas.

CO emissions shall not exceed 33.4 lbs/hour when firing number two fuel oil.

0.06 lb SO2/mmBtu actual heat input

The permittee shall combust oil that contains equal to or less than 0.05 percent by weight sulfur.

0.18 lb/hour SO2 when firing natural gas.

14.7 lbs/hour SO2 when firing number two fuel oil.

2 lbs/hour VOC*, when firing natural gas.

2.7 lbs/hour VOC*, when firing number two fuel oil.

17 lbs/hour OC, when firing natural gas.

10.61 lbs/hour OC, when firing number two fuel oil.

60.1 TPY OC emissions combined from emissions units B001, B002, B003, B004, B005, B006, B007, and B008.

2 lbs/hour particulate emissions when firing natural gas.

7 lbs/hour particulate emissions when firing number 2 fuel oil.

8.9 TPY particulate emissions combined from emissions units B001, B002, B003, B004, B005, B006, B007, and B008.

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

The requirements of this rule also include compliance with the requirements of OAC rule 3745-17-11(B)(4).

The emission limitations from these rules are less stringent than the emission limitations established pursuant to OAC rule 3745-31-05(A)(3) and 3745-31-05(D).

* the permittee has submitted emissions data that supports for purposes of avoiding both federal 112(g) and state of Ohio OAC rule 3745-31-28 regulations that all Hazardous Air Pollutants (HAPs) are less than VOC emissions.

2. Additional Terms and Conditions

2.a Compliance with OAC rule 3745-31-05(A)(3) shall be demonstrated through the use of water injection to reduce nitrogen oxides emissions to 25 ppmvd when burning natural gas and 42 ppmvd when burning number two fuel oil, and the 120 TPY NOx allowable.

2.b In lieu of the requirements of 40 CFR Part 60.334(a) (Subpart GG) to install and operate a continuous monitoring system to monitor the ratio of water to fuel being fired in each turbine, the permittee shall install and operate NOx continuous emissions monitoring system for this emissions unit.

2.c In lieu of monitoring the nitrogen content of the natural gas being fired in the turbine as required by 40 CFR 60 Subpart GG (section 60.334(b)), the permittee shall install and operate systems to continuously monitor and record emissions of NOx from this emissions unit.

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

2.e In lieu of the test methods and procedures required under 40 CFR Part 60.335, the permittee shall follow the testing and Continuous Emissions Monitoring requirements for this emissions unit in accordance with this permit.

2.f Start-up shall be defined as the time necessary to bring a turbine on line from a no load condition to synchronization and shall not exceed a maximum of 15 minutes. Shutdown periods shall not exceed 15 minutes.

II. Operational Restrictions

1. To ensure enforceability during the first twelve calendar months of operation following startup of emissions units B001, B002, B003, B004, B005, B006, B007, and B008, the permittee shall not exceed the cumulative NOx emission rates specified in the following table:

Month	Cumulative Summation of the NOx emission rate (TPY)
1	40
1 - 2	80
1 - 3	120
1 - 4	120
1 - 5	120

1 - 6	120
1 - 7	120
1 - 8	120
1 - 9	120
1 - 10	120
1 - 11	120
1 - 12	120

After the first 12 calendar months of operation following startup of emissions units B001, B002, B003, B004, B005, B006, B007, and B008, compliance with the annual emission limitation shall be based upon a rolling, 12-month summation.

2. To ensure enforceability during the first twelve calendar months of operation following startup of emissions units B001, B002, B003, B004, B005, B006, B007, and B008, the permittee shall not exceed the cumulative CO emission rates specified in the following table:

Month	Cumulative Summation of the CO emission rate (TPY)
1	83
1 - 2	166
1 - 3	249
1 - 4	249
1 - 5	249
1 - 6	249
1 - 7	249
1 - 8	249
1 - 9	249
1 - 10	249
1 - 11	249
1 - 12	249

After the first 12 calendar months of operation following startup of emissions units B001, B002, B003, B004, B005, B006, B007, and B008, compliance with the annual emission limitation shall be based upon a rolling, 12-month summation.

3. To ensure enforceability during the first twelve calendar months of operation following startup of emissions units B001, B002, B003, B004, B005, B006, B007, and B008, the permittee shall not exceed the cumulative SO2 emission rates specified in the following table:

Month	Cumulative Summation of the SO2 emission rate (TPY)
1	1.14
1 - 2	2.28
1 - 3	3.42

1 - 4	4.56
1 - 5	5.7
1 - 6	5.7
1 - 7	5.7
1 - 8	5.7
1 - 9	5.7
1 - 10	5.7
1 - 11	5.7
1 - 12	5.7

After the first 12 calendar months of operation following startup of emissions units B001, B002, B003, B004, B005, B006, B007, and B008, compliance with the annual emission limitation shall be based upon a rolling, 12-month summation.

4. To ensure enforceability during the first twelve calendar months of operation following startup of emissions units B001, B002, B003, B004, B005, B006, B007, and B008, the permittee shall not exceed the cumulative VOC emission rates specified in the following table:

Month	Cumulative Summation of the VOC emission rate (TPY)
1	2.5
1 - 2	4.9
1 - 3	7.4
1 - 4	7.4
1 - 5	7.4
1 - 6	7.4
1 - 7	7.4
1 - 8	7.4
1 - 9	7.4
1 - 10	7.4
1 - 11	7.4
1 - 12	7.4

After the first 12 calendar months of operation following startup of emissions units B001, B002, B003, B004, B005, B006, B007, and B008, compliance with the annual emission limitation shall be based upon a rolling, 12-month summation.

5. The maximum annual operating hours for emissions units B001, B002, B003, B004, B005, B006, B007, and B008 shall not exceed 6,434** while burning natural gas and 694** while burning fuel

oil no. 2., based upon a rolling, 12-month summation of the operating hours.

To ensure enforceability during the first twelve calendar months of operation following startup of emissions units B001, B002, B003, B004, B005, B006, B007, and B008, the permittee shall not exceed the cumulative operating hours levels specified in the following table:

Month	Maximum Allowable Cumulative Operating Hours While Burning Natural Gas**	Maximum Allowable Cumulative Operating Hours While Burning Fuel Oil No. 2**
1	2,145	231
1 - 2	4,289	463
1 - 3	6,434	694
1 - 4	6,434	694
1 - 5	6,434	694
1 - 6	6,434	694
1 - 7	6,434	694
1 - 8	6,434	694
1 - 9	6,434	694
1 - 10	6,434	694
1 - 11	6,434	694
1 - 12	6,434	694

** the permittee may combust 1.37 additional hours of natural gas for every hour fuel oil not combusted, up to 7, 386 hours annually of natural gas combustion.

After the first 12 calendar months of operation following startup of emissions units B001, B002, B003, B004, B005, B006, B007, and B008, compliance with the annual operating hours limitation shall be based upon a rolling, 12-month summation of the operating hours.

6. The quality of number two fuel oil burned in this emissions unit shall have a combination of heat and sulfur content which is sufficient to comply with the allowable sulfur dioxide emission limitation.

Compliance with the above mentioned specification shall be determined by using analytical results provided by the permittee or oil supplier for each shipment of oil. The permittee shall perform or require the supplier to perform the analyses for sulfur content and heat content in accordance with

the following ASTM methods: ASTM method D4294, ASTM method D240, or ASTM method 6010 for sulfur content; and ASTM method D240 for heat content. The newest or most recent revisions to the applicable test method shall be used for analyses. Alternative, equivalent methods may be used upon written approval by the Ohio EPA District Office or local air agency.

7. The permittee shall burn only pipeline natural gas, and/or number two fuel oil in this emissions unit.

III. Monitoring and/or Record keeping Requirements

1. The permittee shall maintain monthly records of the following information:

   a. The amount of number two fuel oil burned, in gallons.

   b. The amount of natural gas burned, in cubic feet.

   c. The summation of the operating hours from emissions units B001, B002, B003, B004, B005, B006, B007, and B008 combined, in hours /month when burning natural gas and/or when burning fuel oil no. 2.

   d. During the first twelve calendar months of operation following startup, the cumulative operating hours for each calendar month when burning natural gas and/or when burning fuel oil no. 2. Following the first twelve calendar months of operation following startup, the rolling, 12-month summation of the operating hours from emissions units B001, B002, B003, B004, B005, B006, B007, and B008 combined, in hours/rolling, 12-month period when burning natural gas and/or when burning fuel oil no. 2.

   e. The summation of the NOx emissions from emissions units B001, B002, B003, B004, B005, B006, B007, and B008 combined, in tons/month.

   f. During the first twelve calendar months of operation following startup, the cumulative NOx emissions for each calendar month. Following the first twelve calendar months of operation following startup, the rolling, 12-month summation of the NOx emissions from emissions units B001, B002, B003, B004, B005, B006, B007, and B008 combined, in tons/rolling, 12-month period.

   g. The summation of the CO emissions from emissions units B001, B002, B003, B004, B005, B006, B007, and B008 combined, in tons/month.

   h. During the first twelve calendar months of operation following startup, the cumulative CO emissions for each calendar month. Following the first twelve calendar months of operation following startup, the rolling, 12-month summation of the CO emissions from emissions units B001, B002, B003, B004, B005, B006, B007, and B008 combined, in tons/rolling, 12-month period.

   i. The summation of the SO2 emissions from emissions units B001, B002, B003, B004,

B005, B006, B007, and B008 combined, in tons/month.

j. During the first twelve calendar months of operation following startup, the cumulative SO2 emissions for each calendar month. Following the first twelve calendar months of operation following startup, The rolling, 12-month summation of the SO2 emissions from emissions units B001, B002, B003, B004, B005, B006, B007, and B008 combined, in tons/rolling, 12-month period.

k. The summation of the VOC emissions from emissions units B001, B002, B003, B004, B005, B006, B007, and B008 combined, in tons/month.

l. During the first twelve calendar months of operation following startup, the cumulative VOC emissions for each calendar month. Following the first twelve calendar months of operation following startup, The rolling, 12-month summation of the VOC emissions from emissions units B001, B002, B003, B004, B005, B006, B007, and B008 combined, in tons/rolling, 12-month period.

2. The permittee shall monitor the sulfur content of the fuel oil being fired in the turbine. The frequency of monitoring shall be determined as follows:

a. If the turbine is supplied fuel oil from a bulk storage tank, the values shall be determined on each occasion that fuel oil is transferred to the storage tank from any other source.

b. If the turbine is supplied its fuel oil without intermediate bulk storage the values shall be determined and recorded daily. Owners, operators or fuel vendors may develop custom fuel schedules for the determination of the values based on the design and operation of the affected facility and the characteristics of the fuel supply. These custom schedules shall be substantiated with data and must be approved by the Ohio EPA, Central Office before they can be used.

c. For each shipment of oil received for burning in this emissions unit, the permittee shall maintain records of the total quantity of oil received and the permittee's or oil supplier's analyses for sulfur content and heat content.

3. <u>Continuous NOx Monitoring</u>

a. Prior to the installation of the continuous NOx monitoring system, the permittee shall submit information detailing the proposed location of the sampling site in accordance with the siting requirements in 40 CFR Part 60, Appendix B,

Performance Specification 6 for approval by the Ohio EPA, Central Office.

b. Within 60 days of the startup of this emissions unit, the permittee shall conduct certification tests of such equipment pursuant to ORC section 3704.03(I) and 40 CFR Part 60, Appendix B, Performance Specification 6, and/or 40 CFR Part 75. Personnel from the Regional Air Pollution Control Agency shall be notified 30 days prior to initiation of the applicable tests and shall be permitted to examine equipment and witness the certification tests. In accordance with OAC rule 3745-15-04, all copies of the test results shall be submitted to the Regional Air Pollution Control Agency within 30 days after the test is completed. Copies of the test results shall be sent to the Regional Air Pollution Control Agency and the Ohio EPA Central Office. Certification of the continuous NOx monitoring system shall be granted upon determination by the Ohio EPA Central Office that the system meets all requirements of ORC section 3704.03(I) and 40 CFR Part 60, Appendix B, Performance Specification 6 and/or 40 CFR Part 75.

c. The permittee shall operate and maintain existing equipment to continuously monitor and record NOx from this emissions unit in units of the applicable standard. Such continuous monitoring and recording equipment shall comply with the requirements specified in 40 CFR Part 60.13 and/or 40 CFR Part 75.

d. 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 units of the applicable standard in the appropriate averaging period (e.g., hourly), results of daily zero/span calibration checks, and magnitude of manual calibration adjustments.

e. Within 180 days of the effective date of this permit, the permittee shall develop 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 standard. 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 logbook dedicated to the continuous NOx monitoring system must be kept on site and available for inspection during regular office hours.

4. Continuous CO Monitoring

a. Prior to the installation of the continuous CO monitoring system, the permittee shall submit information detailing the proposed location of the sampling site in accordance with the siting requirements in 40 CFR Part 60, Appendix B, Performance Specification 4 and 6 for approval by the Ohio EPA, Central Office.

b. Within 60 days of the startup of this emissions unit, the permittee shall conduct certification tests of the continuous CO monitoring system pursuant to ORC section 3704.03(I), 40 CFR Part 60, Appendix B, Performance Specification 4 and 6. Personnel from the appropriate Ohio EPA District Office or local air agency shall be notified 30 days prior to initiation of the applicable tests and shall be permitted to examine equipment and witness the certification tests. In accordance with OAC rule 3745-15-04, all copies of the test results shall be submitted to the appropriate Ohio EPA District Office or local air agency within 30 days after the test is completed. Copies of the test results shall be sent to the appropriate Ohio EPA District Office or local air agency and the Ohio EPA, Central Office. Certification of the continuous CO monitoring system shall be granted upon determination by the Ohio EPA Central Office that the system meets all requirements of ORC section 3704.03(I) and 40 CFR Part 60, Appendix B, Performance Specification 4 and 6 and/or 40 CFR Part 75.

c. The permittee shall operate and maintain equipment to continuously monitor and record CO from this emissions unit in units of the applicable standard. Such continuous monitoring and recording equipment shall comply with the requirements specified in 40 CFR Part 60.13 and/or 40 CFR Part 75.

d. The permittee shall maintain records of all data obtained by the continuous CO monitoring system including, but not limited to, emissions of CO in units of the applicable standard in the appropriate averaging period (e.g., hourly), results of daily zero/span calibration checks, and magnitude of manual calibration adjustments.

e. Within 180 days of the effective date of this permit, the permittee shall develop a written quality assurance/quality control plan for the continuous CO monitoring system designed to ensure continuous valid and representative readings of CO. The plan shall follow the requirements of 40 CFR Part 60, Appendix F. The quality assurance/quality control plan and a logbook dedicated to the continuous CO monitoring system must be kept on site and available for inspection during regular office hours.

5. When the emissions unit is combusting natural gas or number two fuel oil and the nitrogen oxides continuous monitoring system is not operational, the permittee shall provide nitrogen oxide missing data pursuant to the provisions listed in 40 CFR Part 75.

6. For each day during which the permittee burns a fuel other than pipeline natural gas, and/or number two fuel oil, the permittee shall maintain a record of the type and quantity of fuel burned in this emissions unit.

March 21, 2000

IV. Reporting Requirements

1. The permittee shall submit quarterly reports which identify each period during which an exemption for ice-fog provided in 40 CFR 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. These reports shall be postmarked by April 30, July 30, October 30, and January 30 and shall cover the previous calendar quarter.

2. The permittee shall submit quarterly deviation reports to the Regional Air Pollution Control Agency that identify any exceedances of the following:

   a. For the first twelve months of operation following startup of these emissions units, the cumulative NOx, CO, SO2, and VOC emission rates from emissions units B001, B002, B003, B004, B005, B006, B007, and B008 combined.

   b. Beginning after the first twelve calendar months of operation following startup of these emissions units, the rolling, 12-month summation of the NOx, CO, SO2, and VOC emission limitations for emissions units B001, B002, B003, B004, B005, B006, B007, and B008 combined.

   c. Beginning after the first twelve calendar months of operation following startup of these emissions units B001, B002, B003, B004, B005, B006, B007, and B008, the rolling, 12-month operating hours limitations and, for the first 12 calendar months of operation following start up emissions units of B001, B002, B003, B004, B005, B006, B007, and B008, all exceedances of the maximum allowable cumulative operating hours levels.

   These reports shall be submitted in accordance with Section A.1. of the General Terms and Conditions of this permit.

3. The permittee shall submit, on a quarterly basis, copies of the permittee's or oil supplier's analyses for each shipment of number two fuel oil which is received for burning in this emissions unit. The permittee's or oil supplier's analyses shall document the sulfur content (percent) and heat content (Btu/gallon) for each shipment of oil. The following information shall also be included with the copies of the permittee's or oil supplier's analyses:

   a. The total quantity of oil received in each shipment (gallons).

   b. The weighted* average sulfur content (percent by weight) for the oil received during each calendar month.

c. The weighted* average heat content (Btu/gallon) of the oil received during each calendar month.

d. The weighted* average SO2 emission rate (lbs/mmBtu of actual heat input) of the oil combusted during each calendar month (the SO2 emission rate shall be calculated as specified in OAC rule 3745-18-04(F)).

* In proportion to the quantity of oil received in each shipment during each calendar month.

4. Continuous NOx Emissions Monitoring

a. Pursuant to OAC rules 3745-15-04, 3745-35-02, and ORC sections 3704.03(I) and 3704.031 and 40 CFR Parts 60.7 and 60.13(h), the permittee shall submit reports within 30 days following the end of each calendar quarter to the appropriate Ohio EPA District Office or local air agency documenting the date, commencement and completion time, duration, magnitude, reason (if known), and corrective actions taken (if any), of all instances of NOx values in excess of the applicable limits specified in the terms and conditions of this permit (29.9 lbs/hour and 25 ppmvd at 15% oxygen when burning natural gas and 46.7 lbs/hour and 42 ppmvd at 15% oxygen when burning number two fuel 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 appropriate Ohio EPA District Office or local air agency documenting any continuous NO_X 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 emissions unit operating time during the reporting period and the date, time, reason, and corrective action(s) taken for each time period of emissions unit, control equipment, and/or monitoring system malfunctions. The total operating time of the emissions unit and the total operating time of the analyzer while the emissions unit was on line also shall be included in the quarterly report. These quarterly excess emission reports shall be submitted by January 30, April 30, July 30, and October 30 of each year and shall address the data obtained during the previous calendar quarter.

5. Continuous CO Emissions Monitoring

a. Pursuant to OAC rules 3745-15-04, 3745-35-02, and ORC sections 3704.03(I) and 3704.031 and 40 CFR Parts 60.7 and 60.13(h), the permittee shall submit reports within 30 days following the end of each calendar quarter to the appropriate Ohio EPA District Office or local air agency documenting the date, commencement and completion times, duration, magnitude, reason (if known), and corrective actions taken (if any) of all instances of CO values in excess of any applicable limits specified in the terms and conditions of this permit (73.5 lbs/hour when burning natural gas, and 33.4 lbs/hour when burning number two fuel oil). These reports shall also contain the total CO 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 appropriate Ohio EPA District Office or local air agency documenting any continuous CO 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 emissions unit operating time during the reporting period and the date, time, reason, and corrective action(s) taken for each time period of emissions unit, control equipment, and/or monitoring system malfunctions. The total operating time of the emissions unit and the total operating time of the analyzer while the emissions unit was on line shall also be included in the quarterly report. These quarterly excess emission reports shall be submitted by January 30, April 30, July 30, and October 30 of each year and shall address the data obtained during the previous calendar quarter.

6. Pursuant to NSPS, the permittee is hereby advised of the requirement to report the following at the appropriate times:

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

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

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

d. Date of performance testing (at least 30 days prior to testing).

Reports are to be sent to:

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

and

Regional Air Pollution Control Agency
451 W. Third Street
P.O. Box 972
Dayton, Ohio 45422

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

8. The permittee shall submit annual reports which specify the total particulate, SO2, OC, and VOC emissions from this emissions unit for the previous calendar year. These reports shall be submitted by January 31 of each year.

V. Testing Requirements

1. Compliance with the emission limitation(s) in Section A.I. of these terms and conditions shall be determined in accordance with the following method(s):

a. Emission Limitation -

120 TPY NOx as a rolling, 12-month summation combined from emissions units B001, B002, B003, B004, B005, B006, B007, and B008.

Applicable Compliance Method -

Compliance shall be based upon record keeping as specified in A.III.1. and shall be determined through the use of CEMs as specified in A.III.3.

The monthly NOx emissions shall be added to the total NOx emissions from the previous eleven months to determine the rolling, 12-month summation of NOx emissions.

b. Emission Limitation -

249 TPY CO as a rolling, 12-month summation combined from emissions units B001, B002, B003, B004, B005, B006, B007, and B008

Applicable Compliance Method -

Compliance shall be based upon record keeping as specified in A.III.1. and shall be determined through the use of CEMs as specified in A.III.4.

The monthly CO emissions shall be added to the total CO emissions from the previous eleven months to determine the rolling, 12-month summation of CO emissions.

c. Emission Limitation -

5.7 TPY SO2 as a rolling, 12-month summation combined from emissions units B001, B002, B003, B004, B005, B006, B007, and B008

Applicable Compliance Method -

Compliance shall be based upon record keeping as specified in A.III.1. and shall be determined through a summation of the SO2 emissions from the burning of natural gas and number 2 fuel oil as follows:

i. The monthly SO2 emissions from the burning of natural gas shall be determined by multiplying the USEPA default value for pipeline natural gas (0.0006 lb SO2/mmBtu) by the combined actual heat input while burning of natural gas (mmBTU/month) in emissions units B001, B002, B003, B004, B005, B006, B007, and B008 and then divideing by 2,000 lbs/ton.

ii. The monthly SO2 emissions from the burning of number 2 fuel oil shall be determined by multiplying the operating hours while burning number 2 fuel oil for the month in emissions units B001, B002, B003, B004, B005,B006, B007, and B008 by the average percent sulfur of the fuel oil used during the period (or 0.05% sulfur) times the factor of 2 lbs of SO2 per lb of sulfur divided by the average heat content of the fuel burned during the period times the combined actual heat input while burning number 2 fuel oil in emissions units B001, B002, B003, B004, B005, B006, B007, and B008 (mmBTU/hr) and then divideing by 2,000 lbs/ton.

iii. The monthly SO2 emissions shall be added to the total SO2 emissions from the previous eleven months to determine the rolling, 12-month summation of SO2 emissions, using the USEPA default value for pipeline natural gas (0.0006 lb SO2/mmBtu) and fuel sampling analysis for fuel oil as determined in Section A.III.2.

d. Emission Limitation -

7.4 TPY VOC *** as a rolling, 12-month summation combined from emissions units B001, B002, B003, B004, B005, B006, B007, and B008

Applicable Compliance Method -

Compliance shall be based upon record keeping as specified in A.III.1. and shall be determined through a summation of the VOC emissions from the burning of natural gas

and number 2 fuel oil as follows:

i. The VOC*** emissions from the burning of natural gas shall be determined by multiplying the operating hours while burning natural gas for the month in emissions units B001, B002, B003, B004, B005, B006, B007, and B008 by the average emission rate (lbs VOC/hour) derived from the stack test conducted in accordance with term A.V.2. that are operating during the month and dividing by 2,000 lbs/ton.

ii. The VOC*** emissions from the burning of number 2 fuel oil shall be determined by multiplying the operating hours while burning number 2 fuel oil for the month in emissions units B001, B002, B003, B004, B005,B006, B007, and B008 by the average emission rate (lbs VOC/hour) derived from the stack test conducted in accordance with term A.V.2. that are operating during the month and dividing by 2,000 lbs/ton.

iii. The monthly VOC*** emissions shall be added to the total VOC emissions from the previous eleven months to determine the rolling, 12-month summation of VOC emissions, using the average emission rates derived from the stack test conducted in accordance with term A.V.2.

e. Emission Limitation -

Sulfur content of oil shall be equal to or less than 0.05 percent by weight sulfur.

Applicable Compliance Method -

Compliance shall be based upon the fuel oil analysis requirement specified in A.II.6 and the record keeping requirements specified in A.III.2.

f. Emission Limitation -

0.040 lb particulate emissions/mmBtu actual heat input

Applicable Compliance Method -

Compliance shall be demonstrated by the manufacturer's guaranteed emissions data.

g. Emission Limitation -

NOx emissions shall not exceed 29.9 lbs/hour and 25 ppmvd at 15% oxygen, when firing natural gas, based on a one-hour average.

NOx emissions shall not exceed 46.7 lbs/hour and 42 ppmvd at 15% oxygen, when firing number two fuel oil, based on a one-hour average.

Applicable Compliance Method -

Compliance with the NOx emission and concentration limitations shall be based upon the continuous emissions monitoring requirement and the monitoring/record keeping required by this permit.

h. Emission Limitation -

73.5 lbs CO/hour, when firing natural gas
33.4 lbs CO/hour, when firing number two fuel oil

Applicable Compliance Method -

Compliance with the CO emission limitation shall be based upon the continuous emissions monitoring requirement and the monitoring/record keeping required by this permit.

i. Emission Limitation -

0.06 lb SO2/mmBtu actual heat input

Applicable Compliance Method -

When firing number two fuel oil, compliance shall be based upon the fuel analysis and record keeping requirements specified in A.II.6. and A.III.2. and the use of the equations specified in OAC rule 3745-18-04(F).

When firing natural gas, compliance with this limitation will be assumed due to the negligible percent sulfur, by weight, in the fuel. If required, the permittee shall perform or require the supplier to perform an analysis of the natural gas for sulfur content in accordance with the appropriate ASTM method (such as, ASTM method D3031), or an equivalent method as approved by the Director, in order to demonstrate compliance with this emission limitation using the appropriate equation specified in AP-42 Table 3.1-1 (10/96).

j. Emission Limitation -

0.18 lb/hour SO2, when firing natural gas.
14.7 lbs/hour SO2, when firing number two fuel oil.

Applicable Compliance Method -

When firing natural gas, compliance shall be based upon multiplying the USEPA default value for pipeline natural gas by the maximum heat input capacity of this emissions unit. When firing number two fuel oil, compliance shall be based upon the fuel analysis and record keeping requirements specified in A.II.6. and A.III.2. and shall be determined by multiplying the sulfur dioxide emissions in lb SO2/mmBtu by the maximum heat input capacity of this emissions unit.

k. Emission Limitation -

2 lbs/hour VOC***, when firing natural gas.
2.7 lbs/hour VOC***, when firing number two fuel oil.

Applicable Compliance Method -

Compliance shall be based upon stack testing as required in A.V.2.

l. Emission Limitation -

17 lbs/hour OC, when firing natural gas.
10.61 lbs/hour OC, when firing number two fuel oil.

Applicable Compliance Method -

Compliance shall be based upon the record keeping requirements specified in A.III.1. and by manufacturer's guaranteed emissions data.

m. Emission Limitation -

60.1 TPY organic emissions combined from emissions units B001, B002, B003, B004, B005, B006, B007, and B008

Applicable Compliance Method -

Compliance shall be based upon record keeping as specified in A.III.1. and the manufacturer's guaranteed emissions data.

n. Emission Limitation -

2 lbs/hour particulate emissions, when firing natural gas.
7 lbs/hour particulate emissions, when firing number 2 fuel oil.

Applicable Compliance Method -

Compliance shall be demonstrated by manufacturer's guaranteed emissions data.

o. Emission Limitation -

8.9 TPY particulate emissions combined from emissions units B001, B002, B003, B004, B005, B006, B007, and B008

Applicable Compliance Method -

Compliance shall be based upon record keeping as specified in A.III.1. and the manufacturer's guaranteed emissions data.

p. Emission Limitation -

10% opacity visible emissions, as a 6-minute average

Applicable Compliance Method -

Compliance shall be determined through visible emissions observations performed in accordance with OAC rule 3745-17-03(B)(1) using the methods and procedures specified in USEPA Reference Method 9.

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

a. The emission testing shall be conducted within 90 days following startup of the emissions unit.

b. The emission testing shall be conducted to demonstrate compliance with the VOC*** emission limitation~~s~~.

***the permittee has requested that if the average emissions rate (lbs/hour) derived from the stack test conducted in accordance with this term is less than the permit VOC allowable listed in term A.I.1., it may apply for an air permit to install modification to increase the hours of operation. The permittee realizes that this modification might trigger the requirement to secure either an administrative or a new air permit to install.

c. The following test method(s) shall be employed to demonstrate compliance with the allowable mass emission rate(s):

for VOC, Method 18 or 25 of 40 CFR Part 60, Appendix A.

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

d. The test(s) shall be conducted while the emissions unit is operating at or near its maximum capacity, unless otherwise specified or approved by the appropriate Ohio EPA District Office or local air agency.

Not later than 30 days prior to the proposed test date(s), the permittee shall submit an "Intent to Test" notification to the appropriate Ohio EPA District Office or local air agency. 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 test(s), and the person(s) who will be conducting the test(s). Failure to submit such notification for review and approval prior to the test(s) may result in the Ohio EPA District Office's or local air agency's refusal to accept the results of the emission test(s).

Personnel from the appropriate Ohio EPA District Office or local air agency shall be permitted to witness the test(s), examine the testing equipment, and acquire data and information necessary to ensure that the operation of the emissions unit and the testing procedures provide a valid characterization of the emissions from the emissions unit and/or the performance of the control equipment.

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

VI. Miscellaneous Requirements

None.

March 21, 2000

B. State Only Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

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

Operations, Property, and/or Equipment	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
Natural gas and number two fuel oil-fired, simple cycle, combustion turbine, having a nominal capacity of 269.71 mmBtu/hr (25 MW), controlled with a water injection nitrogen oxides reduction system; G1CT1 - Generator No. 1, Turbine No. 1	None	None

2. Additional Terms and Conditions

None.

II. Operational Restrictions

None.

III. Monitoring and/or Recordkeeping Requirements

None.

IV. Reporting Requirements

None.

V. Testing Requirements

March 21, 2000

None.

March 21, 2000

VI. Miscellaneous Requirements

None.

March 21, 2000

Part III - SPECIAL TERMS AND CONDITIONS FOR SPECIFIC EMISSIONS UNIT(S) [Continued]

A. State and Federally Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

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

Operations, Property, and/or Equipment	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
unpaved roadways: access roads for oil tankers	OAC rule 3745-17-08	None, refer to section A.I.2.a of the terms and conditions of this permit.
	OAC rule 3745-17-07(B)	None, refer to section A.I.2.b of the terms and conditions of this permit.
	OAC rule 3745-31-05(A)(3)	Posting of speed limit signs stating a speed limit of no more than 15 mile per hour.
		No visible particulate emissions except for 3 minutes during any 60-minute period.

2. Additional Terms and Conditions

2.a This emissions unit is not located within the areas identified in "Appendix A" of OAC rule 3745-17-08. Therefore, pursuant to OAC rule 3745-17-08(A), OAC rule 3745-17-08 does not apply to this fugitive dust source.

2.b Because OAC rule 3745-17-08 is not applicable, this emissions unit is exempt from the visible particulate emissions (PE) limitation specified in OAC rule 3745-17-07(B) pursuant to OAC rule 3745-17-07(B)(11)(d).

II. Operational Restrictions

None.

III. Monitoring and/or Recordkeeping Requirements

None.

March 21, 2000

IV. Reporting Requirements

None.

V. Testing Requirements

Compliance with the emissions limitation for the unpaved roadways and parking areas identified above shall be determined in accordance with Test Method 22 as set forth in "Appendix on Test Methods" in 40 CFR, Part 60 ("Standards of Performance for New Stationary Sources," as such Appendix existed on July 1, 1996, and the modifications listed in paragraphs (B)(4)(a) through (B)(4)(d) of OAC rule 3745-17-03.

However, this testing shall be conducted only when the Ohio EPA requests testing because the Ohio EPA has reason to believe that non-complying visible emissions are occurring.

VI. Miscellaneous Requirements

None.

March 21, 2000

B. State Only Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

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

Operations, Property, and/or Equipment	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
unpaved roadways: access road for oil tankers	None	None

2. Additional Terms and Conditions

None.

II. Operational Restrictions

None.

III. Monitoring and/or Record keeping Requirements

None.

IV. Reporting Requirements

None.

V. Testing Requirements

None.

VI. Miscellaneous Requirements

None.

Emissions Unit ID: **F001**

March 21, 2000

Part III - SPECIAL TERMS AND CONDITIONS FOR SPECIFIC EMISSIONS UNIT(S) [Continued]

A. State and Federally Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

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

Operations, Property, and/or Equipment	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
400,000 gallon No. 2 fuel oil internal floating roof storage tank	OAC rule 3745-31-05(A)(3)	0.01 TPY volatile organic compounds (VOC)
	OAC rule 3745-21-09(L)(1)	See Section A.I.2.
	NSPS 40 CFR Part 60 Subpart Kb	See Section A.III.2.

2. Additional Terms and Conditions

2.a The fixed roof storage tank shall be equipped with an internal floating roof.

2.b The automatic bleeder vents shall be closed at all times except when the roof is floated off or landed on the roof leg supports, and the rim vents, if provided, shall be set to open when the roof is being floated off the roof leg supports or is at the manufacturer's recommended setting.

2.c All openings, except stub drains, shall be equipped with a cover, seal or lid which is to be in a closed position at all times except when in actual use for tank gauging or sampling.

II. Operational Restrictions

1. The tank shall be loaded by means of a submerged fill pipe, defined as any fill pipe with the discharge opening entirely submerged when the liquid level is six inches above the bottom of the tank or when loaded from the side, any fill pipe with the discharge opening entirely submerged when the liquid level is eighteen inches above the bottom of the tank, OAC rule 3745-21-

01(C)(6).

III. Monitoring and/or Recordkeeping Requirements

1. The permittee shall maintain records of the following information.

   a. The types of petroleum liquids stored in the tank.

   b. The maximum true vapor pressure (in pounds per square inch absolute), as stored, of each liquid that has a maximum true vapor pressure greater than 1.0 pound per square inch absolute.

2. The permittee shall keep readily accessible records showing the dimension of the storage vessel and an analysis showing the capacity of the storage vessel for the life of the source.

3. The permittee shall perform annual inspections of the gray paint finish of the storage tank and make repairs when necessary, to maintain the gray tank finish in good condition.

4. The permittee shall maintain monthly records of the No. 2 fuel oil throughput, in gallons.

IV. Reporting Requirements

1. If the permittee places, stores, or holds in the fixed roof tank any petroleum liquid with a true vapor pressure which is greater than 1.52 pounds per square inch absolute, and such tank does not comply with the requirements of paragraph (L)(1) of OAC rule 3745-21-09, the permittee shall notify the Director (the appropriate Ohio EPA District Office or local air agency) within 30 days of becoming aware of the occurrence.

V. Testing Requirements

1. Compliance with the emission limitations specified in A.I.1. of these terms and conditions shall be determined in accordance with the following method(s):

   a. Emission Limitation -

      0.01 TPY VOC

      Applicable Compliance Method -

      Compliance shall be demonstrated based upon the record keeping requirements specified

in section A.III.4 and the formulas provided in AP-42 Chapter 7, Organic Liquid Storage Tanks, section 7.1.3.1, Total Losses from Fixed Roof Tanks (9/1997) or the "TANKS 3.1" software program.

VI. Miscellaneous Requirements

None.

March 21, 2000

B. State Only Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

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

Operations, Property, and/or Equipment	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
400,000 gallon No. 2 fuel oil internal floating roof storage tank		

2. Additional Terms and Conditions

2.a None.

II. Operational Restrictions

None.

III. Monitoring and/or Recordkeeping Requirements

None.

IV. Reporting Requirements

None.

V. Testing Requirements

None.

VI. Miscellaneous Requirements

None.