State of Ohio Environmental Protection Agency

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

RE: DRAFT PERMIT TO INSTALL MODIFICATION **CERTIFIED MAIL**
DARKE COUNTY
Application No: 08-03963
DATE: 12/16/2003

Omega JV2 Versailles Peaking Station
Randy Meyer
2600 Airport Dr
Columbus, OH 43219-2242

You are hereby notified that the Ohio Environmental Protection Agency has made a draft action recommending that the Director issue a Permit to Install modification for the air contaminant source(s) [emissions unit(s)] shown on the enclosed draft permit modification. This draft action is not an authorization to begin construction or modification of your emissions unit(s). The purpose of this draft is to solicit public comments on the proposed installation. A public notice concerning the draft permit will appear in the Ohio EPA Weekly Review and the newspaper in the county where the facility will be located. Public comments will be accepted by the field office within 30 days of the date of publication in the newspaper. Any comments you have on the draft permit modification should be directed to the appropriate field office within the comment period. A copy of your comments should also be mailed to Robert Hodanbosi, Division of Air Pollution Control, Ohio EPA, P.O. Box 1049, Columbus, OH, 43266-0149.

A Permit to Install modification may be issued in proposed of final form based on the draft action, any written public comments received within 30 days of the public notice, or record of a public meeting if one is held. You will be notified in writing of a scheduled public meeting. Upon issuance of a final Permit to Install modification a fee of **$ 600** will be due. Please do not submit any payment now.

The Ohio EPA is urging companies to investigate pollution prevention and energy conservation. Not only will this reduce pollution and energy consumption, but it can also save you money. If you would like to learn ways you can save money while protecting the environment, please contact our Office of Pollution Prevention at (614) 644-3469. If you have any questions about this draft permit, please contact the field office where you submitted your application, or Mike Ahern, Field Operations & Permit Section at (614) 644-3631.

Very truly yours,

Michael W. Ahern

Michael W. Ahern, Supervisor
Field Operations and Permit Section
Division of Air Pollution Control

CC: USEPA **RAPCA** **Miami Valley Regional Planning Commission** **IN**

DARKE COUNTY

PUBLIC NOTICE
ISSUANCE OF DRAFT PERMIT TO INSTALL **08-03963** FOR AN AIR CONTAMINANT SOURCE FOR
OMEGA JV2 VERSAILLES PEAKING STATION

On 12/16/2003 the Director of the Ohio Environmental Protection Agency issued a draft action of a Permit To Install an air contaminant source for **Omega JV2 Versailles Peaking Station**, located at **649 E Water St, Versailles**, Ohio.

Installation of the air contaminant source identified below may proceed upon final issuance of Permit To Install 08-03963:

administrative modification to increase fuel usage of B001, B002, and B003.

Comments concerning this draft action, or a request for a public meeting, must be sent in writing to the address identified below no later than thirty (30) days from the date this notice is published. All inquiries concerning this draft action may be directed to the contact identified below.

John Paul, Regional Air Pollution Control Agency, 117 South Main street, Dayton, OH 45422-12084
[(937)225-4435]

DRAFT MODIFICATION OF PERMIT TO INSTALL 08-03963

Application Number:	08-03963
APS Premise Number:	0819180235
Permit Fee:	**To be entered upon final issuance**
Name of Facility:	Omega JV2 Versailles Peaking Station
Person to Contact:	Randy Meyer
Address:	2600 Airport Dr Columbus, OH 43219-2242

Location of proposed air contaminant source(s) [emissions unit(s)]:
649 E Water St
Versailles, **Ohio**

Description of proposed emissions unit(s):
Administrative modification to increase fuel usage of B001, B002, and B003.

The above named entity is hereby granted a modification to the permit to install described above pursuant to Chapter 3745-31 of the Ohio Administrative Code. Issuance of this modification 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 source(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 included in the application, the above described source(s) of pollutants will be granted the necessary operating permits.

This permit is granted subject to the conditions attached hereto.

Ohio Environmental Protection Agency

_____
Director

Part I - GENERAL TERMS AND CONDITIONS

A. 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

The permittee shall submit required reports in the following manner:

a. Reports of any required monitoring and/or recordkeeping 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 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. Records Retention Requirements

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.

4. Inspections and Information Requests

The Director of the Ohio EPA, or an authorized representative of the Director, may, subject to the safety requirements of the permittee and without undue delay, enter upon the premises of this source at any reasonable time for purposes of making inspections, conducting tests, examining records or reports pertaining to any emission of air contaminants, and determining compliance with any applicable State air pollution laws and regulations and the terms and conditions of this permit. The permittee shall furnish to the Director of the Ohio EPA, or an authorized representative of the Director, upon receipt of a written request and within a reasonable time, any

information that may be requested to determine whether cause exists for modifying, reopening or revoking this permit or to determine compliance with this permit. Upon verbal or written request, the permittee shall also furnish to the Director of the Ohio EPA, or an authorized representative of the Director, copies of records required to be kept by this permit.

5. Scheduled Maintenance/Malfunction Reporting

Any scheduled maintenance of air pollution control equipment shall be performed in accordance with paragraph (A) of OAC rule 3745-15-06. The malfunction 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. Except as provided in that rule, any scheduled maintenance or malfunction necessitating the shutdown or bypassing of any air pollution control system(s) shall be accompanied by the shutdown of the emissions unit(s) that is (are) served by such control system(s).

6. 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.

7. 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.

8. 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.

9. 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 cannot meet the requirements of this permit 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 cannot meet the requirements of this permit or cannot meet applicable standards.

10. 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.

11. Applicability

This Permit To Install is applicable only to the emissions unit(s) identified in the Permit To Install. Separate Permit To Install for the installation or modification of any other emissions unit(s) are required for any emissions unit for which a Permit To Install is required.

12. 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.

13. Source Operation and Operating Permit Requirements After Completion of Construction

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 ninety (90) days after commencing operation of the source(s) covered by this permit..

14. 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.

15. 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.

B. 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
Particulate emissions	2.22
Organic Compounds	2.07
Nitrogen Oxides	63.6
Sulfur Dioxide	1.83
Carbon Monoxide	3.33

Emissions Unit ID: **B001**

PART II - SPECIAL TERMS AND CONDITIONS FOR SPECIFIC EMISSIONS UNIT(S)

A. 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	
B001 - 20.02 mmBTU/hr diesel-fired electric generator, No.1 (2628 brake horsepower)	OAC rule 3745-31-05(A)(3)	OAC rule 3745-17-11(B)(5)(b)
*Modification		OAC rule 3745-18-06(G)
		OAC rule 3745-17-07(A)(1)
	OAC rule 3745-35-07(B) Synthetic Minor to avoid TV permitting requirements.	OAC rule 3745-21-08(B) OAC rule 3745-23-06(B)

Applicable Emissions Limitations/Control Measures	
The emissions for the following pollutants shall not exceed: for nitrogen oxides (NOx),40.6lbs/hour; for organic compounds (OC), 1.14 lbs/hour; for carbon monoxide (CO), 2.14 lbs/hour; for sulfur dioxide (SO2), 0.051 lb /mmBtu actual heat input; and for particulate emissions, 0.062 lbs/mmBTU. The requirements of this rule also include compliance with the requirements of OAC rule 3745-17-07(A)(1), OAC rule 3745-35-07(B), and 3745-17-11(B)(5)(b). The emissions for the following pollutants shall not exceed: for nitrogen oxides (NOx), 21.2 TPY; for organic compounds (OC), 0.69 TPY; for carbon monoxide (CO), 1.11TPY; for sulfur dioxide (SO2), 0.61 TPY; and for particulate emissions 0.74 TPY. The above tons/year limitations are rolling, 12-month summations. The annual fuel usage rate shall not exceed 171,600 gallons as a rolling 12-month summation. The particulate emissions limit shall not exceed 0.062 lbs/mmBTU.	The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3). The opacity shall not exceed 20% visible particulate emissions, as a six-minute average, except as provided by rule. See section A.2.b and c.

Emissions Unit ID: **B001**

2. Additional Terms and Conditions

2.a The hourly emission rates the following pollutants 40.6 lbs/hour nitrogen oxides, 1.14 lbs/hour organic compounds, and 2.14 lbs/hour carbon monoxide, were established for PTI purposes to reflect the potential to emit for this emissions unit. Therefore, it is not necessary to develop record keeping and/or reporting requirements to ensure compliance with this limit.

2.b The design of the emissions unit and the technology associated with the current operating practices will satisfy the "best available control techniques and operating practices" required pursuant to OAC rule 3745-21-08.

On November 5, 2002, OAC rule 3745-21-08 was revised to delete paragraph (B); therefore, paragraph (B) is no longer part of the State regulations. However, that rule revision has not yet been submitted to the U.S. EPA as a revision to Ohio's State Implementation Plan (SIP). Therefore, until the SIP revision occurs and the U.S. EPA approves the revisions to OAC rule 3745-21-08, the requirement to satisfy the "best available control techniques and operating practices" still exists as part of the federally-approved SIP for Ohio.

2.c The design of the emissions unit and the technology associated with the current operating practices will satisfy the "latest available control techniques and operating practices" required pursuant to OAC rule 3745-23-06.

B. Operational Restrictions

1. The maximum diesel fuel usage for this emissions unit shall not exceed 171,600 gallons per year based upon a rolling, 12-month summation of the fuel usage. Since this is an existing emissions unit, the applicant has existing fuel usage records and therefore the permit does not need to contain first year monthly fuel usage limitations to limit potential to emit.

2. The quality of oil burned in this emissions unit shall meet a sulfur content that is sufficient to comply with the allowable sulfur dioxide emission limitation specified in section A.1. above.

C. Monitoring and/or Recordkeeping Requirements

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

   a. The number of gallons of diesel fuel burned for the calendar month.

   b. The number of gallons of diesel fuel burned for the rolling, 12-month summation period.
   c. The NOx emission rate, in tons.

   d. The rolling, 12-month summation of the NOx emission rates, in tons.

2. The quality of the oil burned in this emissions unit shall meet a sulfur content that is sufficient to comply with the allowable sulfur dioxide emission limitation specified in Section A.I above.

3. For each shipment of oil received for burning in this emissions unit, the permittee shall maintain records of the total quantity of oil received, the permittee's or oil supplier's analyses for sulfur content and heat content, and the calculated sulfur dioxide emission rate (in lbs/mmBtu). (The sulfur dioxide emission rate shall be calculated in accordance with the formula specified in OAC rule 3745-18-04(F).) A shipment may be comprised of multiple tank truck loads from the same supplier's batch, or may be represented by single or multiple pipeline deliveries from the same supplier's batch, and the quality of the oil for those loads or pipeline deliveries may be represented by a single batch analysis from the supplier.

4. The permittee shall perform or require the supplier to perform the analyses for sulfur content and heat content in accordance with 40 CFR Part 60, Appendix A, Method 19, or the appropriate ASTM methods (such as, ASTM methods D240 and D4294), or equivalent methods as approved by the Director.

5. The permittee shall maintain records of the oil burned in this emissions unit in accordance with either Alternative 1 or Alternative 2 described below.

   a. Alternative 1:

      For each shipment of oil received for burning in this emissions unit, the permittee shall collect or require the oil supplier to collect a representative grab sample of oil and maintain records of the total quantity of oil received, the permittee's or oil supplier's analyses for sulfur content and heat content, and the calculated sulfur dioxide emission rate (in lbs/mmBtu). (The sulfur dioxide emission rate shall be calculated in accordance with the formula specified in OAC rule 3745-18-04(F).) A shipment may be comprised of multiple tank truck loads from the same supplier's batch, and the quality of the oil for those loads may be represented by a single batch analysis from the supplier.

   b. Alternative 2:

      The permittee shall collect a representative grab sample of oil that is burned in this emissions unit for each day when the emissions unit is in operation. If additional fuel oil is added to the tank serving this emissions unit on a day when the emissions unit is in operation, the permittee shall collect a sufficient number of grab samples to develop a composite sample representative of the fuel oil burned in this emissions unit. A representative grab sample of oil does not need to be collected on days when this emissions unit is only operated for the purpose of "test-firing." The permittee shall maintain records of the total quantity of oil burned each day,

except for the purpose of test-firing, the permittee's analyses for sulfur content and heat content, and the calculated sulfur dioxide emission rate (in lbs/mmBtu). (The sulfur dioxide emission rate shall be calculated in accordance with the formula specified in OAC rule 3745-18-04(F).)

D. Reporting Requirements

1. The permittee shall notify the Director (the appropriate District Office or local air agency) in writing of any record which shows a deviation of the allowable sulfur dioxide emission limitation based upon the calculated sulfur dioxide emission rates from Section C.5 above. The notification shall include a copy of such record and shall be sent to the Director (the appropriate District Office or local air agency) within 45 days after the deviation occurs.

2. The permittee shall submit quarterly deviation (excursion) reports which identify all exceedances of the rolling, 12-month diesel fuel usage limitation and the rolling, 12-month summation of the NOx emission rates. These reports are due by the date described in Part 1 - General Terms and Conditions of this permit under section (A)(1).

2. The permittee shall also submit annual reports to RAPCA which specify the total nitrogen oxide emissions from this emissions unit for the previous calendar year. These reports shall be submitted by January 31 of each year.

E. Testing Requirements

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

   a. Emission Limitation -
   0.062 lb particulate/mmBtu actual heat input

   Applicable Compliance Method -
   Compliance shall be based upon the reported manufacturer's emission factor of 0.006 lb particulate/gallon of fuel oil burned, divided by the heat content of the fuel oil of 0.140 mmBTU/gallon. If required, the permittee shall demonstrate compliance with this emission limitation in accordance with the methods and procedures specified in OAC rule 3745-17-03(B)(10).

   b. Emission Limitation -
   0.74TPY particulates

   Applicable Compliance Method -
   Compliance shall be based on multiplying the maximum rate of the unit, 20.02 mmBTU/hr times the heat input of 0.062 lbs/mmBTU, pursuant to OAC rule 3745-17-11(B)(5)(b), times the maximum hourly usage of 1200 hrs/yr and divided by 2,000 pounds per ton.

c. Emission Limitation -
40.6 lb/hour nitrogen oxides

Applicable Compliance Method -
Compliance shall be based upon the 11-5-99, stack test, emission factor of 0.247 lb nitrogen oxides/gallon of fuel oil burned, multiplied by the maximum hourly fuel burning capacity of 143 gallons/hour for this emissions unit and then adding 15% for operational flexibility.

d. Emission Limitation -
21.2 TPY nitrogen oxides, as a rolling, 12-month summation

Applicable Compliance Method -
Compliance shall be based upon record keeping as specified in C.1. and shall be determined by multiplying each 12-month summation of the recorded fuel usages by the emission factor of 0.247 lb nitrogen oxides/gallon of fuel oil burned, and dividing by 2,000 pounds per ton.

e. Emission Limitation -
0.051 lb sulfur dioxide/mmBtu actual heat input

Applicable Compliance Method -
Compliance shall be based upon the record keeping and analysis requirements specified in A.III. Compliance shall be based upon the following equation.

(143 gallons fuel/hour)(7.10 lbs fuel/gallon)(0.0005lbs S/ 1 lb fuel)(32 lbs/ mol S02/ 16 lb/ mol S) = 1.02 lbs/hr S02.
(1.02 lbs SO2/hr)(hr/143 gallons)(gallons/0.140mmBTU) = 0.0509 lbs SO2/mm/BTU

f. Emission Limitation -
0.61 TPY sulfur dioxide

Applicable Compliance Method -
Compliance shall be based upon record keeping as specified in C.1.. and shall be the sum of the 12 monthly diesel fuel usage records for the calendar year multiplied by the manufacturer's emission factor of 0.007 lb sulfur dioxide/gallon of fuel oil burned, divided by 2,000 pounds per ton

g. Emission Limitation -
2.14 lbs/hour carbon monoxide

Applicable Compliance Method -
Compliance shall be based upon the 11-5-99, stack test emission rate of 0.013 lb carbon monoxide/gallon of fuel oil burned, multiplied by the maximum hourly fuel burning capacity of 143 gallons/hour for this emissions unit and then adding 15% for operational flexibility.

h. Emission Limitation -
1.11 TPY carbon monoxide

Applicable Compliance Method -
Compliance shall be based upon record keeping as specified in C.1. and shall be the sum of the 12 monthly diesel fuel usage records for the calendar year multiplied by an emission factor of 0.013 lb carbon monoxide/gallon of fuel oil burned, divided by 2,000 pounds per ton.

i. Emission Limitation -
1.14 lbs/hour organic compounds

Applicable Compliance Method -
Compliance shall be based upon the manufacturer's emission rate of 0.008 lb organic compounds/gallon of fuel oil burned, multiplied by the maximum hourly fuel burning capacity of 143 gallons/hour for this emissions unit.

j. Emission Limitation -
0.69 TPY organic compounds

Applicable Compliance Method -
Compliance shall be based upon record keeping as specified in C.1. and shall be the sum of the 12 monthly diesel fuel usage records for the calendar year multiplied by an emission factor of 0.008 lb organic compounds/gallon of fuel oil burned and divided by 2,000 pounds per ton.

k. Emission Limitation -
20% opacity visible emissions, as a six-minute average

Applicable Compliance Method -
If required, compliance shall be determined by visible emission evaluations performed in accordance with OAC rule 3745-17-03(B)(1) using the methods and procedures specified in USEPA Reference Method 9.

l. Operational Limitation -
171,600 gal/year fuel usage as a rolling 12-month summation

Applicable Compliance Method -
Compliance shall be based upon record keeping as specified in C.1.

F. Miscellaneous Requirements

1. *This is a modification to increase the hourly and annual fuel usage. This results in the following emission changes. For NOx, -7.45TPY; CO,- 1.12 TPY; OC, +0.05; PE, +0.28 TPY, and; SO2, +0.08 TPY.

PART II - SPECIAL TERMS AND CONDITIONS FOR SPECIFIC EMISSIONS UNIT(S)

A. 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	
B002 - 20.02 mmBTU/hr diesel-fired electric generator, No.2 (2628 brake horsepower)	OAC rule 3745-31-05(A)(3)	OAC rule 3745-17-11(B)(5)(b)
*Modification		OAC rule 3745-18-06(G)
		OAC rule 3745-17-07(A)(1)
		OAC rule 3745-21-08(B)
	OAC rule 3745-35-07(B) Synthetic Minor to avoid TV permitting requirements.	OAC rule 3745-23-06(B)

Emissions Unit ID: **B002**

Applicable Emissions Limitations/Control Measures	
The emissions for the following pollutants shall not exceed: for nitrogen oxides (NOx),40.6lbs/hour; for organic compounds (OC), 1.14 lbs/hour; for carbon monoxide (CO), 2.14 lbs/hour; for sulfur dioxide (SO2), 0.051 lb /mmBtu actual heat input; and for particulate emissions, 0.062 lbs/mmBTU. The requirements of this rule also include compliance with the requirements of OAC rule 3745-17-07(A)(1), OAC rule 3745-35-07(B), and 3745-17-11(B)(5)(b). The emissions for the following pollutants shall not exceed: for nitrogen oxides (NOx), 21.2 TPY; for organic compounds (OC), 0.69 TPY; for carbon monoxide (CO), 1.11TPY; for sulfur dioxide (SO2), 0.61 TPY; and for particulate emissions 0.74 TPY. The above tons/year limitations are rolling, 12-month summations. The annual fuel usage rate shall not exceed 171,600 gallons as a rolling 12-month summation. The particulate emissions limit shall not exceed 0.062 lbs/mmBTU. The emission limitation specified by this rule is less stringent than the	emission limitation established pursuant to OAC rule 3745-31-05(A)(3). The opacity shall not exceed 20% visible particulate emissions, as a six-minute average, except as provided by rule. See section A.2.b and c.

2. Additional Terms and Conditions

2.a The hourly emission rates the following pollutants 40.6 lbs/hour nitrogen oxides, 1.14 lbs/hour organic compounds, and 2.14 lbs/hour carbon monoxide, were established for PTI purposes to reflect the potential to emit for this emissions unit. Therefore, it is not necessary to develop record keeping and/or reporting requirements to ensure compliance with this limit

2.b The design of the emissions unit and the technology associated with the current operating practices will satisfy the "best available control techniques and operating practices" required pursuant to OAC rule 3745-21-08.

On November 5, 2002, OAC rule 3745-21-08 was revised to delete paragraph (B); therefore, paragraph (B) is no longer part of the State regulations. However, that rule revision has not yet been submitted to the U.S. EPA as a revision to Ohio's State Implementation Plan (SIP). Therefore, until the SIP revision occurs and the U.S. EPA approves the revisions to OAC rule 3745-21-08, the requirement to satisfy the "best available control techniques and operating practices" still exists as part of the federally-approved SIP for Ohio.

2.c The design of the emissions unit and the technology associated with the current operating practices will satisfy the "latest available control techniques and operating practices" required pursuant to OAC rule 3745-23-06.

B. Operational Restrictions

1. The maximum diesel fuel usage for this emissions unit shall not exceed 171,600 gallons per year based upon a rolling, 12-month summation of the fuel usage. Since this is an existing emissions unit, the applicant has existing fuel usage records and therefore the permit does not need to contain first year monthly fuel usage limitations to limit potential to emit.

2. The quality of oil burned in this emissions unit shall meet a sulfur content that is sufficient to comply with the allowable sulfur dioxide emission limitation specified in section A.1. above.

C. Monitoring and/or Recordkeeping Requirements

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

   a. The number of gallons of diesel fuel burned for the calendar month.

   b. The number of gallons of diesel fuel burned for the rolling, 12-month summation period.

c. The NOx emission rate, in tons.

d. The rolling, 12-month summation of the NOx emission rates, in tons.

2. The quality of the oil burned in this emissions unit shall meet a sulfur content that is sufficient to comply with the allowable sulfur dioxide emission limitation specified in Section A.I above.

3. For each shipment of oil received for burning in this emissions unit, the permittee shall maintain records of the total quantity of oil received, the permittee's or oil supplier's analyses for sulfur content and heat content, and the calculated sulfur dioxide emission rate (in lbs/mmBtu). (The sulfur dioxide emission rate shall be calculated in accordance with the formula specified in OAC rule 3745-18-04(F).) A shipment may be comprised of multiple tank truck loads from the same supplier's batch, or may be represented by single or multiple pipeline deliveries from the same supplier's batch, and the quality of the oil for those loads or pipeline deliveries may be represented by a single batch analysis from the supplier.

4. The permittee shall perform or require the supplier to perform the analyses for sulfur content and heat content in accordance with 40 CFR Part 60, Appendix A, Method 19, or the appropriate ASTM methods (such as, ASTM methods D240 and D4294), or equivalent methods as approved by the Director.

5. The permittee shall maintain records of the oil burned in this emissions unit in accordance with either Alternative 1 or Alternative 2 described below.

a. Alternative 1:

For each shipment of oil received for burning in this emissions unit, the permittee shall collect or require the oil supplier to collect a representative grab sample of oil and maintain records of the total quantity of oil received, the permittee's or oil supplier's analyses for sulfur content and heat content, and the calculated sulfur dioxide emission rate (in lbs/mmBtu). (The sulfur dioxide emission rate shall be calculated in accordance with the formula specified in OAC rule 3745-18-04(F).) A shipment may be comprised of multiple tank truck loads from the same supplier's batch, and the quality of the oil for those loads may be represented by a single batch analysis from the supplier.

b. Alternative 2:

The permittee shall collect a representative grab sample of oil that is burned in this emissions unit for each day when the emissions unit is in operation. If additional fuel oil is added to the tank serving this emissions unit on a day when the emissions unit is in operation, the permittee shall collect a sufficient number of grab samples

to develop a composite sample representative of the fuel oil burned in this emissions unit. A representative grab sample of oil does not need to be collected on days when this emissions unit is only operated for the purpose of "test-firing." The permittee shall maintain records of the total quantity of oil burned each day, except for the purpose of test-firing, the permittee's analyses for sulfur content and heat content, and the calculated sulfur dioxide emission rate (in lbs/mmBtu). (The sulfur dioxide emission rate shall be calculated in accordance with the formula specified in OAC rule 3745-18-04(F).)

D. Reporting Requirements

1. The permittee shall notify the Director (the appropriate District Office or local air agency) in writing of any record which shows a deviation of the allowable sulfur dioxide emission limitation based upon the calculated sulfur dioxide emission rates from Section C.5 above. The notification shall include a copy of such record and shall be sent to the Director (the appropriate District Office or local air agency) within 45 days after the deviation occurs.

2. The permittee shall submit quarterly deviation (excursion) reports which identify all exceedances of the rolling, 12-month diesel fuel usage limitation and the rolling, 12-month summation of the NOx emission rates. These reports are due by the date described in Part 1 - General Terms and Conditions of this permit under section (A)(1).

2. The permittee shall also submit annual reports to RAPCA which specify the total nitrogen oxide emissions from this emissions unit for the previous calendar year. These reports shall be submitted by January 31 of each year.

E. Testing Requirements

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

   a. Emission Limitation -
   0.062 lb particulate/mmBtu actual heat input

   Applicable Compliance Method -
   Compliance shall be based upon the reported manufacturer's emission factor of 0.006 lb particulate/gallon of fuel oil burned, divided by the heat content of the fuel oil of 0.140 mmBTU/gallon. If required, the permittee shall demonstrate compliance with this emission limitation in accordance with the methods and procedures specified in OAC rule 3745-17-03(B)(10).

   b. Emission Limitation -
   0.74TPY particulates

Applicable Compliance Method -
Compliance shall be based on multiplying the maximum rate of the unit, 20.02 mmBTU/hr times the heat input of 0.062 lbs/mmBTU, pursuant to OAC rule 3745-17-11(B)(5)(b), times the maximum hourly usage of 1200 hrs/yr and divided by 2,000 pounds per ton.

c. Emission Limitation -
40.6 lb/hour nitrogen oxides

Applicable Compliance Method -
Compliance shall be based upon the 11-5-99, stack test, emission factor of 0.247 lb nitrogen oxides/gallon of fuel oil burned, multiplied by the maximum hourly fuel burning capacity of 143 gallons/hour for this emissions unit and then adding 15% for operational flexibility.

d. Emission Limitation -
21.2 TPY nitrogen oxides, as a rolling, 12-month summation

Applicable Compliance Method -
Compliance shall be based upon record keeping as specified in C.1. and shall be determined by multiplying each 12-month summation of the recorded fuel usages by the emission factor of 0.247 lb nitrogen oxides/gallon of fuel oil burned, and dividing by 2,000 pounds per ton.

e. Emission Limitation -
0.051 lb sulfur dioxide/mmBtu actual heat input

Applicable Compliance Method -
Compliance shall be based upon the record keeping and analysis requirements specified in A.III. Compliance shall be based upon the following equation.

(143 gallons fuel/hour)(7.10 lbs fuel/gallon)(0.0005lbs S/ 1 lb fuel)(32 lbs/ mol S02/ 16 lb/ mol S) = 1.02 lbs/hr S02.
(1.02 lbs SO2/hr)(hr/143 gallons)(gallons/0.140mmBTU) = 0.0509 lbs SO2/mm/BTU

f. Emission Limitation -
0.61 TPY sulfur dioxide

Applicable Compliance Method -
Compliance shall be based upon record keeping as specified in C.1.. and shall be the sum of the 12 monthly diesel fuel usage records for the calendar year multiplied by the manufacturer's emission factor of 0.007 lb sulfur dioxide/gallon of fuel oil burned, divided by 2,000 pounds per ton

g. Emission Limitation -
2.14 lbs/hour carbon monoxide

Applicable Compliance Method -
Compliance shall be based upon the 11-5-99, stack test emission rate of 0.013 lb carbon monoxide/gallon of fuel oil burned, multiplied by the maximum hourly fuel burning capacity of 143 gallons/hour for this emissions unit and then adding 15% for operational flexibility.

h. Emission Limitation -
1.11 TPY carbon monoxide

Applicable Compliance Method -
Compliance shall be based upon record keeping as specified in C.1. and shall be the sum of the 12 monthly diesel fuel usage records for the calendar year multiplied by an emission factor of 0.013 lb carbon monoxide/gallon of fuel oil burned, divided by 2,000 pounds per ton.

i. Emission Limitation -
1.14 lbs/hour organic compounds

Applicable Compliance Method -
Compliance shall be based upon the manufacturer's emission rate of 0.008 lb organic compounds/gallon of fuel oil burned, multiplied by the maximum hourly fuel burning capacity of 143 gallons/hour for this emissions unit.

j. Emission Limitation -
0.69 TPY organic compounds

Applicable Compliance Method -
Compliance shall be based upon record keeping as specified in C.1. and shall be the sum of the 12 monthly diesel fuel usage records for the calendar year multiplied by an emission factor of 0.008 lb organic compounds/gallon of fuel oil burned and divided by 2,000 pounds per ton.

k. Emission Limitation -
20% opacity visible emissions, as a six-minute average

Applicable Compliance Method -
If required, compliance shall be determined by visible emission evaluations performed in accordance with OAC rule 3745-17-03(B)(1) using the methods and procedures

specified in USEPA Reference Method 9.

Emissions Unit ID: **B002**

l. Operational Limitation -
171,600 gal/year fuel usage as a rolling 12-month summation

Applicable Compliance Method -
Compliance shall be based upon record keeping as specified in C.1.

F. Miscellaneous Requirements

1. *This is a modification to increase the hourly and annual fuel usage. This results in the following emission changes. For NOx, -7.45TPY; CO,- 1.12 TPY; OC, +0.05; PE, +0.28 TPY, and; SO2, +0.08 TPY.

PART II - SPECIAL TERMS AND CONDITIONS FOR SPECIFIC EMISSIONS UNIT(S)

A. 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	
B003 - 20.02 mmBTU/hr diesel-fired electric generator, No.31 (2628 brake horsepower)	OAC rule 3745-31-05(A)(3)	OAC rule 3745-17-11(B)(5)(b)
*Modification		OAC rule 3745-18-06(G)
		OAC rule 3745-17-07(A)(1)
		OAC rule 3745-21-08(B)
	OAC rule 3745-35-07(B) Synthetic Minor to avoid TV permitting requirements.	OAC rule 3745-23-06(B)

Applicable Emissions Limitations/Control Measures	
The emissions for the following pollutants shall not exceed: for nitrogen oxides (NOx),40.6lbs/hour; for organic compounds (OC), 1.14 lbs/hour; for carbon monoxide (CO), 2.14 lbs/hour; for sulfur dioxide (SO2), 0.051 lb /mmBtu actual heat input; and for particulate emissions, 0.062 lbs/mmBTU.	The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).
The requirements of this rule also include compliance with the requirements of OAC rule 3745-17-07(A)(1), OAC rule 3745-35-07(B), and 3745-17-11(B)(5)(b).	The opacity shall not exceed 20% visible particulate emissions, as a six-minute average, except as provided by rule.
The emissions for the following pollutants shall not exceed: for nitrogen oxides (NOx), 21.2 TPY; for organic compounds (OC), 0.69 TPY; for carbon monoxide (CO), 1.11TPY; for sulfur dioxide (SO2), 0.61 TPY; and for particulate emissions 0.74 TPY.	See section A.2.b and c.
The above tons/year limitations are rolling, 12-month summations.	
The annual fuel usage rate shall not exceed 171,600 gallons as a rolling 12-month summation.	
The particulate emissions limit shall not exceed 0.062 lbs/mmBTU.	

2. Additional Terms and Conditions

2.a The hourly emission rates the following pollutants 40.6 lbs/hour nitrogen oxides, 1.14 lbs/hour organic compounds, and 2.14 lbs/hour carbon monoxide, were established for PTI purposes to reflect the potential to emit for this emissions unit. Therefore, it is not necessary to develop record keeping and/or reporting requirements to ensure compliance with this limit

2.b The design of the emissions unit and the technology associated with the current operating practices will satisfy the "best available control techniques and operating practices" required pursuant to OAC rule 3745-21-08.

On November 5, 2002, OAC rule 3745-21-08 was revised to delete paragraph (B); therefore, paragraph (B) is no longer part of the State regulations. However, that rule revision has not yet been submitted to the U.S. EPA as a revision to Ohio's State Implementation Plan (SIP). Therefore, until the SIP revision occurs and the U.S. EPA approves the revisions to OAC rule 3745-21-08, the requirement to satisfy the "best available control techniques and operating practices" still exists as part of the federally-approved SIP for Ohio.

2.c The design of the emissions unit and the technology associated with the current operating practices will satisfy the "latest available control techniques and operating practices" required pursuant to OAC rule 3745-23-06.

B. Operational Restrictions

1. The maximum diesel fuel usage for this emissions unit shall not exceed 171,600 gallons per year based upon a rolling, 12-month summation of the fuel usage. Since this is an existing emissions unit, the applicant has existing fuel usage records and therefore the permit does not need to contain first year monthly fuel usage limitations to limit potential to emit.

2. The quality of oil burned in this emissions unit shall meet a sulfur content that is sufficient to comply with the allowable sulfur dioxide emission limitation specified in section A.1. above.

C. Monitoring and/or Recordkeeping Requirements

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

   a. The number of gallons of diesel fuel burned for the calendar month.

   b. The number of gallons of diesel fuel burned for the rolling, 12-month summation period.

c. The NOx emission rate, in tons.

d. The rolling, 12-month summation of the NOx emission rates, in tons.

2. The quality of the oil burned in this emissions unit shall meet a sulfur content that is sufficient to comply with the allowable sulfur dioxide emission limitation specified in Section A.I above.

3. For each shipment of oil received for burning in this emissions unit, the permittee shall maintain records of the total quantity of oil received, the permittee's or oil supplier's analyses for sulfur content and heat content, and the calculated sulfur dioxide emission rate (in lbs/mmBtu). (The sulfur dioxide emission rate shall be calculated in accordance with the formula specified in OAC rule 3745-18-04(F).) A shipment may be comprised of multiple tank truck loads from the same supplier's batch, or may be represented by single or multiple pipeline deliveries from the same supplier's batch, and the quality of the oil for those loads or pipeline deliveries may be represented by a single batch analysis from the supplier.

4. The permittee shall perform or require the supplier to perform the analyses for sulfur content and heat content in accordance with 40 CFR Part 60, Appendix A, Method 19, or the appropriate ASTM methods (such as, ASTM methods D240 and D4294), or equivalent methods as approved by the Director.

5. The permittee shall maintain records of the oil burned in this emissions unit in accordance with either Alternative 1 or Alternative 2 described below.

a. Alternative 1:

For each shipment of oil received for burning in this emissions unit, the permittee shall collect or require the oil supplier to collect a representative grab sample of oil and maintain records of the total quantity of oil received, the permittee's or oil supplier's analyses for sulfur content and heat content, and the calculated sulfur dioxide emission rate (in lbs/mmBtu). (The sulfur dioxide emission rate shall be calculated in accordance with the formula specified in OAC rule 3745-18-04(F).) A shipment may be comprised of multiple tank truck loads from the same supplier's batch, and the quality of the oil for those loads may be represented by a single batch analysis from the supplier.

b. Alternative 2:

The permittee shall collect a representative grab sample of oil that is burned in this emissions unit for each day when the emissions unit is in operation. If additional fuel oil is added to the tank serving this emissions unit on a day when the emissions unit is in operation, the permittee shall collect a sufficient number of grab samples to develop a composite sample representative of the fuel oil burned in this emissions unit. A representative grab sample of oil does not need to be collected on days when this emissions unit is only operated for the purpose of "test-firing."

The permittee shall maintain records of the total quantity of oil burned each day, except for the purpose of test-firing, the permittee's analyses for sulfur content and heat content, and the calculated sulfur dioxide emission rate (in lbs/mmBtu). (The sulfur dioxide emission rate shall be calculated in accordance with the formula specified in OAC rule 3745-18-04(F).)

D. Reporting Requirements

1. The permittee shall notify the Director (the appropriate District Office or local air agency) in writing of any record which shows a deviation of the allowable sulfur dioxide emission limitation based upon the calculated sulfur dioxide emission rates from Section C.5 above. The notification shall include a copy of such record and shall be sent to the Director (the appropriate District Office or local air agency) within 45 days after the deviation occurs.

2. The permittee shall submit quarterly deviation (excursion) reports which identify all exceedances of the rolling, 12-month diesel fuel usage limitation and the rolling, 12-month summation of the NOx emission rates. These reports are due by the date described in Part 1 - General Terms and Conditions of this permit under section (A)(1).

2. The permittee shall also submit annual reports to RAPCA which specify the total nitrogen oxide emissions from this emissions unit for the previous calendar year. These reports shall be submitted by January 31 of each year.

E. Testing Requirements

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

   a. Emission Limitation -
   0.062 lb particulate/mmBtu actual heat input

   Applicable Compliance Method -
   Compliance shall be based upon the reported manufacturer's emission factor of 0.006 lb particulate/gallon of fuel oil burned, divided by the heat content of the fuel oil of 0.140 mmBTU/gallon. If required, the permittee shall demonstrate compliance with this emission limitation in accordance with the methods and procedures specified in OAC rule 3745-17-03(B)(10).

   b. Emission Limitation -
   0.74TPY particulates

Applicable Compliance Method -
Compliance shall be based on multiplying the maximum rate of the unit, 20.02 mmBTU/hr times the heat input of 0.062 lbs/mmBTU, pursuant to OAC rule 3745-17-11(B)(5)(b), times the maximum hourly usage of 1200 hrs/yr and divided by 2,000 pounds per ton.

c. Emission Limitation -
40.6 lb/hour nitrogen oxides

Applicable Compliance Method -
Compliance shall be based upon the 11-5-99, stack test, emission factor of 0.247 lb nitrogen oxides/gallon of fuel oil burned, multiplied by the maximum hourly fuel burning capacity of 143 gallons/hour for this emissions unit and then adding 15% for operational flexibility.

d. Emission Limitation -
21.2 TPY nitrogen oxides, as a rolling, 12-month summation

Applicable Compliance Method -
Compliance shall be based upon record keeping as specified in C.1. and shall be determined by multiplying each 12-month summation of the recorded fuel usages by the emission factor of 0.247 lb nitrogen oxides/gallon of fuel oil burned, and dividing by 2,000 pounds per ton.

e. Emission Limitation -
0.051 lb sulfur dioxide/mmBtu actual heat input

Applicable Compliance Method -
Compliance shall be based upon the record keeping and analysis requirements specified in A.III. Compliance shall be based upon the following equation.

(143 gallons fuel/hour)(7.10 lbs fuel/gallon)(0.0005lbs S/ 1 lb fuel)(32 lbs/ mol S02/ 16 lb/ mol S) = 1.02 lbs/hr S02.
(1.02 lbs SO2/hr)(hr/143 gallons)(gallons/0.140mmBTU) = 0.0509 lbs SO2/mm/BTU

f. Emission Limitation -
0.61 TPY sulfur dioxide

Applicable Compliance Method -
Compliance shall be based upon record keeping as specified in C.1.. and shall be the sum of the 12 monthly diesel fuel usage records for the calendar year multiplied by the manufacturer's emission factor of 0.007 lb sulfur dioxide/gallon of fuel oil burned, divided by 2,000 pounds per ton

g. Emission Limitation -
2.14 lbs/hour carbon monoxide

Applicable Compliance Method -
Compliance shall be based upon the 11-5-99, stack test emission rate of 0.013 lb carbon monoxide/gallon of fuel oil burned, multiplied by the maximum hourly fuel burning capacity of 143 gallons/hour for this emissions unit and then adding 15% for operational flexibility.

h. Emission Limitation -
1.11 TPY carbon monoxide

Applicable Compliance Method -
Compliance shall be based upon record keeping as specified in C.1. and shall be the sum of the 12 monthly diesel fuel usage records for the calendar year multiplied by an emission factor of 0.013 lb carbon monoxide/gallon of fuel oil burned, divided by 2,000 pounds per ton.

i. Emission Limitation -
1.14 lbs/hour organic compounds

Applicable Compliance Method -
Compliance shall be based upon the manufacturer's emission rate of 0.008 lb organic compounds/gallon of fuel oil burned, multiplied by the maximum hourly fuel burning capacity of 143 gallons/hour for this emissions unit.

j. Emission Limitation -
0.69 TPY organic compounds

Applicable Compliance Method -
Compliance shall be based upon record keeping as specified in C.1. and shall be the sum of the 12 monthly diesel fuel usage records for the calendar year multiplied by an emission factor of 0.008 lb organic compounds/gallon of fuel oil burned and divided by 2,000 pounds per ton.

k. Emission Limitation -
20% opacity visible emissions, as a six-minute average

Applicable Compliance Method -
If required, compliance shall be determined by visible emission evaluations performed in accordance with OAC rule 3745-17-03(B)(1) using the methods and procedures

specified in USEPA Reference Method 9.

l. Operational Limitation -
171,600 gal/year fuel usage as a rolling 12-month summation

Applicable Compliance Method -
Compliance shall be based upon record keeping as specified in C.1.

F. Miscellaneous Requirements

1. *This is a modification to increase the hourly and annual fuel usage. This results in the following emission changes. For NOx, -7.45TPY; CO,- 1.12 TPY; OC, +0.05; PE, +0.28 TPY, and; SO2, +0.08 TPY.