

**Synthetic Minor Determination and/or  Netting Determination**

Permit To Install: 05-14425

A. Source Description

Omega JV2 Jackson Center Peaking Station is a 20.2 mmBTU/hr diesel fired generator used for electrical power generation during periods of peak electrical demand.

B. Facility Emissions and Attainment Status

The facility is located in a non-appendix A area. Facility emissions have been calculated as 31.9 TPY for NO<sub>x</sub>, 2.5 TPY for CO, 0.75 TPY for PE, 0.71 TPY for OC, and 0.61 TPY for SO<sub>2</sub>.

C. Source Emissions

Same as facility emissions.

D. Conclusion

Omega JV2 has requested synthetic minor status to avoid becoming a major stationary source. By limiting the hours of operation and the annual fuel usage they will comfortably stay under the major stationary source threshold.



State of Ohio Environmental Protection Agency

**RE: DRAFT PERMIT TO INSTALL  
SHELBY COUNTY**

**CERTIFIED MAIL**

Street Address:

Mailing Address:

Lazarus Gov. Center TELE: (614) 644-3020 FAX: (614) 644-2329

Lazarus Gov.  
Center

**Application No:** 05-14425

**Fac ID:** 0575010227

**DATE:** 11/1/2007

Omega JV2 Jackson Center Peaking Sta.  
Randy Meyer  
2600 Airport Drive  
Columbus, OH 43219

You are hereby notified that the Ohio Environmental Protection Agency has made a draft action recommending that the Director issue a Permit to Install for the air contaminant source(s) [emissions unit(s)] shown on the enclosed draft permit. 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 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, 43216-1049.

A Permit to Install may be issued in proposed or 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 a fee of **\$400** 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.

Sincerely,

*Michael W. Ahern*

Michael W. Ahern, Manager  
Permit Issuance and Data Management Section  
Division of Air Pollution Control

CC: USEPA

SWDO

IN

**SHELBY COUNTY**

PUBLIC NOTICE  
ISSUANCE OF DRAFT PERMIT TO INSTALL **05-14425** FOR AN AIR CONTAMINANT SOURCE  
FOR **Omega JV2 Jackson Center Peaking Sta.**

On 11/1/2007 the Director of the Ohio Environmental Protection Agency issued a draft action of a Permit To Install an air contaminant source for **Omega JV2 Jackson Center Peaking Sta.**, located at **North State Route 65, Jackson Center, Ohio.**

Installation of the air contaminant source identified below may proceed upon final issuance of Permit To Install 05-14425:

**Caterpillar Model 3516B packaged diesel engine and generator.**

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.

Jeff Hines, Ohio EPA, Southwest District Office, 401 East Fifth Street, Dayton, OH 45402-2911  
[(937)285-6357]



**Permit To Install  
Terms and Conditions**

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

**DRAFT PERMIT TO INSTALL 05-14425**

Application Number: 05-14425  
Facility ID: 0575010227  
Permit Fee: **To be entered upon final issuance**  
Name of Facility: Omega JV2 Jackson Center Peaking Sta.  
Person to Contact: Randy Meyer  
Address: 2600 Airport Drive  
Columbus, OH 43219

Location of proposed air contaminant source(s) [emissions unit(s)]:

**North State Route 65  
Jackson Center, Ohio**

Description of proposed emissions unit(s):

**Caterpillar Model 3516B packaged diesel engine and generator.**

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

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Chris Korleski  
Director

**Omega JV2 Jackson Center Peaking Sta.**  
**PTI Application: 05-14425**  
**Issued: To be entered upon final issuance**  
**Part I - GENERAL TERMS AND CONDITIONS**

**Facility ID: 0575010227**

## **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 (i.e., postmarked) quarterly by January 31, April 30, July 31, and October 31 of each year and shall cover the previous calendar quarters. (These quarterly reports shall exclude deviations resulting from malfunctions reported in accordance with OAC rule 3745-15-06.)

### **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,

**Omega JV2 Jackson Center Peaking Sta.**

**Facility ID: 0575010227**

**PTI Application: 05-14425**

**Issued: To be entered upon final issuance**

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

**Omega JV2 Jackson Center Peaking Sta.**  
**PTI Application: 05-14425**

**Facility ID: 0575010227**

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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

**Omega JV2 Jackson Center Peaking Sta.**

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Technology (BAT). Compliance with the terms and conditions of this permit will fulfill this requirement.

Omega JV2 Jackson Center Peaking Sta.  
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**13. Source Operation and Operating Permit Requirements After Completion of Construction**

This facility is permitted to operate each source described by this Permit to Install for a period of up to one year from the date the source commenced operation. This 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 emissions unit(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

<u>Pollutant</u>	<u>Tons Per Year</u>
NOx	31.9
CO	2.5
PE	0.75
OC	0.71
SO2	0.61

**Issued: To be entered upon final issuance**

**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 - (B001) - 20.2 mmBTU/hour diesel fired generator (1825 KW output)**

<b>Applicable Rules/Requirements</b>	<b>Applicable Emissions Limitations/Control Measures</b>
OAC rule 3745-31-05(A)(3)	53.2 lbs NOx/hr.  The requirements of this rule also include compliance with the requirements of OAC rule 3745-17-11(B)(5)(b), 3745-17-07(A), 3745-18-06(G) and 3745-31-05(C).
OAC rule 3745-31-05(C) to avoid Title V.	31.9 TPY NOx emissions per rolling 12-month period; 4.15 lbs CO/hr and 2.5 TPY CO emissions per rolling 12-month period; 1.25 lbs PE/hr and 0.75 TPY PE emissions per rolling 12-month period; 1.19 lbs OC/hr and 0.71 TPY OC emissions per rolling 12-month period; and 1.02 lbs SO2/hr and 0.61 TPY SO2 emissions per rolling 12-month period.  See term B.2 below.
OAC rule 3745-17-07(A)(1)	Visible particulate emissions shall not exceed 20% opacity, as a six-minute average, except as provided by rule.
OAC rule 3745-17-11(B)(5)(b)	0.062 lb/mm Btu of particulate emissions of actual heat input.
OAC rule 3745-18-06(G)	less stringent than limit established by OAC rule 3745-31-05
OAC rule 3745-31-05(A)(3)(b)	See section A.2.a.

**2. Additional Terms and Conditions**

- 2.a The Best Available Technology (BAT) requirements under OAC rule 3745-31-05(A)(3) do not apply to the carbon monoxide (CO), particulate

Emissions Unit ID: **B001**

emissions (PE), organic compound (OC), and sulfur dioxide (SO<sub>2</sub>) emissions from this emissions unit since the restricted potential emissions are less than ten tons per year.

**B. Operational Restrictions**

1. The permittee shall use only diesel fuel with a sulfur content less than 0.05% by weight in the engine and generator.
2. The maximum annual operating hours for this emissions unit shall not exceed 1200 hrs/yr, based upon a rolling, 12-month summation of the operating hours.
3. 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 fuel usage.

**C. Monitoring and/or Recordkeeping Requirements**

1. The permittee shall maintain monthly records of the following information:
  - a. the diesel fuel usage for each month; and
  - b. the operating hours for each month.
2. For each day during which the permittee burns a fuel other than diesel fuel the permittee shall maintain a record of the type and quantity of fuel burned in this emissions unit. The permittee shall also maintain documentation on the sulfur content of all fuels received.

**D. Reporting Requirements**

1. The permittee shall submit quarterly deviation (excursion) reports which identify all exceedances of the rolling, 12-month diesel fuel usage and hours of operation limitations. These reports shall be submitted in accordance with the reporting requirements specified in Part 1 - General Terms and Conditions of this permit under section (A)(2).
2. The permittee shall submit deviation (excursion) reports that identify each day when a fuel other than diesel was burned in this emissions unit. Each report shall be submitted within 30 days after the deviation occurs.
3. The permittee shall also submit annual reports 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 and cover the previous calendar year.

**Issued: To be entered upon final issuance**

**E. Testing Requirements**

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

a. Emission Limitation  
53.2 lbs NOx/hr

Applicable Compliance Method

Compliance shall be based upon the reported manufacturer's emission factor of 0.372 lbs NOx/gallon of diesel fuel burned multiplied by the maximum hourly fuel usage. If required, compliance shall be based upon testing in accordance with 40 CFR Part 60, Appendix A, Method 7E.

b. Emission Limitation  
31.9 TPY NOx

Applicable Compliance Method

Compliance shall be based upon the reported manufacturer's emission factor of 0.372 lbs NOx/gallon of diesel fuel burned multiplied by the maximum annual fuel usage, and dividing by 2,000 pounds per ton.

c. Emission Limitation  
4.15 lbs CO/hr

Applicable Compliance Method

Compliance shall be based upon the reported manufacturer's emission factor of 0.029 lbs CO/gallon of diesel fuel burned multiplied by the maximum hourly fuel usage. If required, compliance shall be based upon testing in accordance with 40 CFR Part 60, Appendix A, Method 10.

d. Emission Limitation  
2.5 TPY CO

Applicable Compliance Method

Compliance shall be based upon the reported manufacturer's emission factor of 0.029 lbs CO/gallon of diesel fuel burned multiplied by the maximum annual fuel usage, and dividing by 2,000 pounds per ton.

e. Emission Limitation  
1.25 lbs PE/hr

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Applicable Compliance Method

Compliance shall be based upon the emission factor of 0.062 lbs PE/mmBTU multiplied by the maximum heat input capacity of 20.2 mmBTU/hr. If required, compliance shall be based upon testing in accordance with 40 CFR Part 60, Appendix A, Method 5.

- f. Emission Limitation  
0.75 TPY PE

Applicable Compliance Method

Compliance shall be based upon the emission factor of 0.062 lbs PE/mmBTU multiplied by the maximum heat input capacity of 20.2 mmBTU/hr, multiplied by the maximum annual hours of operation, and dividing by 2,000 pounds per ton.

- g. Emission Limitation  
1.19 lbs OC/hr

Applicable Compliance Method

Compliance shall be based upon the reported manufacturer's emission factor of 0.0083 lbs OC/gallon of diesel fuel burned multiplied by the maximum hourly fuel usage. If required, compliance shall be based upon testing in accordance with 40 CFR Part 60, Appendix A, Method 25A.

- h. Emission Limitation  
0.71 TPY OC

Applicable Compliance Method

Compliance shall be based upon the reported manufacturer's emission factor of 0.0083 lbs OC/gallon of diesel fuel burned multiplied by the maximum annual fuel usage, and dividing by 2,000 pounds per ton.

- i. Emission Limitation  
1.02 lbs SO<sub>2</sub>/hr

Applicable Compliance Method

Compliance shall be based upon the reported manufacturer's emission factor of 0.0505 lbs SO<sub>2</sub>/mmBTU multiplied by the maximum heat input capacity of 20.2 mmBTU/hr. If required, compliance shall be based upon testing in accordance with 40 CFR Part 60, Appendix A, Method 6.

Emissions Unit ID: **B001**

- j. Emission Limitation  
0.61 TPY SO<sub>2</sub>

Applicable Compliance Method

Compliance shall be based upon the emission factor of 0.0505 lbs SO<sub>2</sub>/mmBTU multiplied by the maximum heat input capacity of 20.2 mmBTU/hr, multiplied by the maximum annual hours of operation, and dividing by 2,000 pounds per ton.

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

Applicable Compliance Method

Compliance shall be determined by visible emission evaluations performed in accordance with OAC rule 3745-17-03(B)(1) and 40 CFR Part 60, Appendix A, Method 9.

**F. Miscellaneous Requirements**

1. The following sections in this permit-to-install are federally enforceable: A, B, C, D and E.

**Omega JV2 Jackson Center Peaking Sta.**  
**PTI Application: 05-14425**  
**Issued: To be entered upon final issuance**

**Facility ID: 0575010227**

Emissions Unit ID: **B001**

SIC CODE 4911 SCC CODE 2-01-001-02 EMISSIONS UNIT ID B001  
 EMISSIONS UNIT DESCRIPTION 20.2 mmBTU/hour diesel fired generator (1825 KW output)  
 DATE INSTALLED 1999

EMISSIONS: (Click on bubble help for Air Quality Descriptions)

Pollutants	Air Quality Description	Actual Emissions Rate		PTI Allowable	
		Short Term Rate	Tons Per Year	Short Term Rate	Tons Per Year
Particulate Matter	attainment	1.25 lb/hr	0.75	1.25 lb/hr	0.75
PM <sub>10</sub>					
Sulfur Dioxide	attainment	1.02 lb/hr	0.61	1.02 lb/hr	0.61
Organic Compounds	attainment	1.19 lb/hr	0.71	1.19 lb/hr	0.71
Nitrogen Oxides	attainment	53.2 lb/hr	31.9	53.2 lb/hr	31.9
Carbon Monoxide	attainment	4.15 lb/hr	2.5	4.15 lb/hr	2.5
Lead					
Other: Air Toxics					

APPLICABLE FEDERAL RULES:

NSPS? \_\_\_\_\_ NESHAP? \_\_\_\_\_ PSD? \_\_\_\_\_ OFFSET POLICY? \_\_\_\_\_

**WHAT IS THE BAT DETERMINATION, AND WHAT IS THE BASIS FOR THE DETERMINATION?**

**Enter Determination** Limiting hours of operation and fuel usage and compliance with terms and conditions of this permit.

IS THIS SOURCE SUBJECT TO THE AIR TOXICS POLICY? No  
 OPTIONAL: WHAT IS THE CAPITAL COST OF CONTROL EQUIPMENT? \$ \_\_\_\_\_

**TOXIC AIR CONTAMINANTS**

Ohio EPA's air toxics policy applies to contaminants for which the American Conference of Governmental Industrial Hygienists (ACGIH) has a listed threshold limit value.

AIR TOXICS MODELING PERFORMED\*? \_\_\_\_\_ YES X NO

IDENTIFY THE AIR CONTAMINANTS: \_\_\_\_\_