



State of Ohio Environmental Protection Agency

Street Address:

Mailing Address:

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

Lazarus Gov.
Center

**RE: DRAFT PERMIT TO INSTALL
MEDINA COUNTY
Application No: 16-01997**

CERTIFIED MAIL

DATE: 2/16/00

AMP-Ohio, Seville Distributed Generation
Randy Meyer
2600 Airport Dr
Columbus, OH

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, 43266-0149.

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 **\$1200** 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,

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

CC: USEPA

ARAQMD



STATE OF OHIO ENVIRONMENTAL PROTECTION AGENCY

**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 16-01997

Application Number: 16-01997
APS Premise Number: 1652070028
Permit Fee: **To be entered upon final issuance**
Name of Facility: AMP-Ohio, Seville Distributed Generation
Person to Contact: Randy Meyer
Address: 2600 Airport Dr
Columbus, OH 43219

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

**I-76 and SR 3
Seville, Ohio**

Description of proposed emissions unit(s):

Three (3) Diesel Fired Electrical Generating Units.

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. 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 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

Issued: To be entered upon final issuance

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 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.

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 application must be made to the Director for the installation or modification of any other emissions unit(s).

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

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 thirty (30) 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>
PM	5.82
SO ₂	4.86
VOC	5.55
CO	20.1
NO _x	85.5

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Emissions Unit ID: B001

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.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	
		OAC rule 3745-17-07(A)
		OAC rule 3745-17-11(B)(5)(b)
Seville Diesel Generator Unit #1 - Caterpillar Model 3516B Packaged 2,628 BHP (17.53 mmBTU/hr input; 1825 kWe output) Diesel Generator Unit	OAC rule 3745-31-05(A)(3)	OAC rule 3745-18-06(G)

OAC rule 3745-31-05(D)

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PTI

Issued: To be entered upon final issuance

Emissions Unit ID: **B001**

Applicable Emissions
Limitations/Control Measures

0.062 lb particulates per mmBtu
actual heat input

1.94 tpy particulates

0.89 lb/hr sulfur dioxide (SO₂)

1.62 tpy SO₂

3.72 lb/hr carbon monoxide (CO)

6.70 tpy CO

47.69 lbs/hr nitrogen oxides (NO_x)

1.06 lbs/hr volatile organic
compounds (VOC)

1.85 tpy VOC

10% opacity as a 6-minute average
(stack emissions)

See A2.a - A.2.b below.

85.8 tpy NO_x for entire facility
(emissions units B001 - B003), as a
rolling 12-month summation.

See A.2.c below.

See A.2.d below.

See A.2.d below.

See A.2.d below.

2. Additional Terms and Conditions

- 2.a** The permittee shall only burn low sulfur diesel fuel, containing less than 0.05% sulfur by weight, in this emissions unit.

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Emissions Unit ID: **B001**

Issued: To be entered upon final issuance

- 2.b** The diesel generator shall be equipped with a low NO_x combustion control module and aftercoolers to minimize NO_x emissions.
- 2.c** The NO_x emissions from either this emissions unit or the entire facility (B001 - B003) shall not exceed 85.8 tpy based on a rolling 12-month summation.
- 2.d** The emissions limit based on this applicable rule is equivalent or less stringent than the limit established pursuant to OAC rule 3745-31-05.

B. Operational Restrictions

1. The maximum annual diesel fuel usage for the entire facility (B001 - B003) shall not exceed 462,240 gallons per year upon a rolling, twelve-month summation.

To ensure enforceability during the first 12 calendar months of operation following the issuance of this permit, the permittee shall not exceed the usage levels specified in the following table:

Month	Maximum Allowable Cumulative Diesel Fuel Usage (Gallons)
1-1	77,040
1-2	154,080
1-3	231,120
1-4	256,800
1-5	282,480
1-6	308,160
1-7	333,840
1-8	359,520
1-9	385,200
1-10	410,880
1-11	436,560
1-12	462,240

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Emissions Unit ID: **B001**

Issued: To be entered upon final issuance

After the first twelve calendar months of operation following the issuance of this permit, compliance with the annual diesel fuel usage rate limitation shall be based upon a rolling, twelve-month summation.

C. Monitoring and/or Recordkeeping Requirements

1. The permittee shall maintain records of the following information:
 - a. the diesel fuel usage for each month; and
 - b. the rolling, twelve month summation of the diesel fuel usage rates, beginning after the first 12 calendar months of operation following the issuance of the permit.

Also, during the first 12 calendar months of operation following the issuance of this permit, the permittee shall record the cumulative diesel fuel usage rate for each calendar month.

D. Reporting Requirements

1. The permittee shall submit deviation (excursion) reports which identify any exceedance of the rolling twelve month diesel fuel usage limitation and for the first 12 calendar months of operation following the issuance of this permit, all exceedances of the maximum allowable cumulative diesel fuel usage limits. These reports are due by the date described in Part 1 - General Terms and Conditions of this permit under section (A)(2).
2. The permittee shall also submit annual reports which specify the total diesel fuel usage for both this emissions unit and the entire facility. These reports shall be submitted by January 31 of each year and shall cover the previous calendar year.

E. 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:**

0.062 lb particulates per mmBtu actual heat input
1.94 tpy particulates

Applicable Compliance Method:

Issue

Emissions Unit ID: **B001**

Compliance shall be based upon an emission factor supplied by the manufacturer of 0.006 lb/gal. This emissions unit burns 128.4 gallons per hour. $128.4 \times 0.006 \text{ lb/gal}$ divided by $17.53 \text{ mmBtu/hr} = 0.044 \text{ lb/mmBtu input}$. $0.006 \text{ lb/gal} \times 462,240 \text{ gallons/yr} = 2773 \text{ lb/yr}$ divided by $2000 \text{ lb/ton} = 1.39 \text{ tpy}$. If required, the permittee shall demonstrate compliance by testing in accordance with OAC rule 3745-17-03(B)(10) and Method 5, 40 CFR Part 60, Appendix A.

b. Emission Limitation:0.89 lb/hr sulfur dioxide (SO₂)1.62 tpy SO₂**Applicable Compliance Method:**

Diesel fuel containing less than 0.05 percent sulfur by weight. The manufacturer supplied emission factor of 0.007 lb/gallon times 128.4 gallons/hr equals 0.898 lb/hr. $0.007 \text{ lb/gallon} \times 462,240 \text{ gallons/yr} = 1.62 \text{ tpy}$. If required, the permittee shall demonstrate compliance by testing in accordance with Method 6, 40 CFR Part 60, Appendix A.

c. Emission Limitation:

3.72 lb/hr carbon monoxide (CO)

6.70 tpy CO

Applicable Compliance Method:

Compliance shall be determined by multiplying the manufacturer supplied emission factor of 0.029 lb/gal by 128.4 gal/hr which results in 3.72 lbs/hr. $0.029 \text{ lb/gal} \times 462,240 \text{ gal/yr} = 6.7 \text{ tpy}$. If required, the permittee shall demonstrate compliance by testing in accordance with Method 10, 40 CFR Part 60, Appendix A.

d. Emission Limitation:47.69 lbs/hr nitrogen oxides (NO_x)85.8 tpy NO_x85.8 tpy NO_x for entire facility (emissions units B001 - B003), as a rolling 12-month summation.**Applicable Compliance Method:**

Compliance shall be determined by multiplying the manufacturer supplied emission factor

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Emissions Unit ID: **B001**

Issued: To be entered upon final issuance

of 0.371 lb/gal by 128.4 gallons/hr which results in 47.63 lbs/hr. $0.371 \text{ lb/gal} \times 462,240 \text{ gallons/yr}$, as a rolling, 12-month summation, for this emissions unit or all emissions units combined = 85.75 tpy. If required, the permittee shall demonstrate compliance by testing in accordance with Method 7, 40 CFR Part 60, Appendix A.

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Issued: To be entered upon final issuance

Emissions Unit ID: **B001**

e. **Emission Limitation:**

1.06 lbs/hr volatile organic compounds (VOC)

1.85 tpy VOC

Applicable Compliance Method:

Compliance shall be determined by multiplying the manufacturer supplied emission factor of 0.008 lb/gallon by 128.4 gallons/hr which results in 1.03 lb/hr. $0.008 \text{ lb/gal} \times 462,240 \text{ gal/yr} = 1.85 \text{ tpy}$. If required, the permittee shall demonstrate compliance by testing in accordance with Method 25, 40 CFR Part 60, Appendix A.

f. **Emission Limitation:**

10% opacity as a 6-minute average
(stack emissions)

Applicable Compliance Method:

OAC rule 3745-17-03(B)(1)

F. Miscellaneous Requirements

None

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Emissions Unit ID: **B002**

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.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	
Seville Diesel Generator Unit #2 - Caterpillar Model 3516B Packaged 2,628 BHP (17.53 mmBTU/hr input; 1825 kWe output) Diesel Generator Unit	OAC rule 3745-31-05(A)(3)	OAC rule 3745-17-07(A) OAC rule 3745-17-11(B)(5)(b) OAC rule 3745-18-06(G)
	OAC rule 3745-31-05(D)	

Applicable Emissions
Limitations/Control Measures

0.062 lb particulates per mmBtu
actual heat input
1.94 tpy particulates

0.89 lb/hr sulfur dioxide (SO₂)
1.62 tpy SO₂

3.72 lb/hr carbon monoxide (CO)
6.70 tpy CO

47.69 lbs/hr nitrogen oxides (NO_x)

1.06 lbs/hr volatile organic
compounds (VOC)
1.85 tpy VOC

10% opacity as a 6-minute average
(stack emissions)

See A.2.a - A.2.b below.

85.8 tpy NO_x for entire facility
(emissions units B001 - B003), as a
rolling 12-month summation.
See A.2.c below.

See A.2.d below.

See A.2.d below.

See A.2.d below.

2. Additional Terms and Conditions

- 2.a** The permittee shall only burn low sulfur diesel fuel, containing less than 0.05% sulfur by weight, in this emissions unit.

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Emissions Unit ID: **B002**

Issued: To be entered upon final issuance

- 2.b** The diesel generator shall be equipped with a low NO_x combustion control module and aftercoolers to minimize NO_x emissions.
- 2.c** The NO_x emissions from either this emissions unit or the entire facility (B001 - B003) shall not exceed 85.8 tpy based on a rolling 12-month summation.
- 2.d** The emissions limit based on this applicable rule is equivalent or less stringent than the limit established pursuant to OAC rule 3745-31-05.

B. Operational Restrictions

- 1. The maximum annual diesel fuel usage for the entire facility (B001 - B003) shall not exceed 462,240 gallons per year upon a rolling, twelve-month summation.

To ensure enforceability during the first 12 calendar months of operation following the issuance of this permit, the permittee shall not exceed the usage levels specified in the following table:

Month	Maximum Allowable Cumulative Diesel Fuel Usage (Gallons)
1-1	77,040
1-2	154,080
1-3	231,120
1-4	256,800
1-5	282,480
1-6	308,160
1-7	333,840
1-8	359,520
1-9	385,200
1-10	410,880
1-11	436,560
1-12	462,240

After the first twelve calendar months of operation following the issuance of this permit, compliance with the annual diesel fuel usage rate limitation shall be based upon a rolling, twelve-month summation.

C. Monitoring and/or Recordkeeping Requirements

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

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Emissions Unit ID: **B002**

Issued: To be entered upon final issuance

- a. the diesel fuel usage for each month; and
- b. the rolling, twelve month summation of the diesel fuel usage rates, beginning after the first 12 calendar months of operation following the issuance of the permit.

Also, during the first 12 calendar months of operation following the issuance of this permit, the permittee shall record the cumulative diesel fuel usage rate for each calendar month.

D. Reporting Requirements

1. The permittee shall submit deviation (excursion) reports which identify any exceedance of the rolling twelve month diesel fuel usage limitation and for the first 12 calendar months of operation following the issuance of this permit, all exceedances of the maximum allowable cumulative diesel fuel usage limits. These reports are due by the date described in Part 1 - General Terms and Conditions of this permit under section (A)(2).
2. The permittee shall also submit annual reports which specify the total diesel fuel usage for both this emissions unit and the entire facility. These reports shall be submitted by January 31 of each year and shall cover the previous calendar year.

E. 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:**

0.062 lb particulates per mmBtu actual heat input

1.94 tpy particulates

Applicable Compliance Method:

Compliance shall be based upon an emission factor supplied by the manufacturer of 0.006 lb/gal. This emissions unit burns 128.4 gallons per hour. $128.4 \times 0.006 \text{ lb/gal}$ divided by $17.53 \text{ mmBtu/hr} = 0.044 \text{ lb/mmBtu input}$. $0.006 \text{ lb/gal} \times 462,240 \text{ gallons/yr} = 2773 \text{ lb/yr}$ divided by $2000 \text{ lb/ton} = 1.39 \text{ tpy}$. If required, the permittee shall demonstrate compliance by testing in accordance with OAC rule 3745-17-03(B)(10) and Method 5, 40 CFR Part 60, Appendix A.

b. Emission Limitation:

0.89 lb/hr sulfur dioxide (SO₂)
1.62 tpy SO₂

Applicable Compliance Method:

Diesel fuel containing less than 0.05 percent sulfur by weight. The manufacturer supplied emission factor of 0.007 lb/gallon times 128.4 gallons/hr equals 0.898 lb/hr. 0.007 lb/gallon x 462,240 gallons/yr = 1.62 tpy. If required, the permittee shall demonstrate compliance by testing in accordance with Method 6, 40 CFR Part 60, Appendix A.

c. Emission Limitation:

3.72 lb/hr carbon monoxide (CO)
6.70 tpy CO

Applicable Compliance Method:

Compliance shall be determined by multiplying the manufacturer supplied emission factor of 0.029 lb/gal by 128.4 gal/hr which results in 3.72 lbs/hr. 0.029 lb/gal x 462,240 gal/yr = 6.7 tpy. If required, the permittee shall demonstrate compliance by testing in accordance with Method 10, 40 CFR Part 60, Appendix A.

d. Emission Limitation:

47.69 lbs/hr nitrogen oxides (NO_x)
85.8 tpy NO_x
85.8 tpy NO_x for entire facility (emissions units B001 - B003), as a rolling 12-month summation.

Applicable Compliance Method:

Compliance shall be determined by multiplying the manufacturer supplied emission factor of 0.371 lb/gal by 128.4 gallons/hr which results in 47.63 lbs/hr. 0.371 lb/gal x 462,240 gallons/yr, as a rolling, 12-month summation, for this emissions unit or all emissions units combined = 85.75 tpy. If required, the permittee shall demonstrate compliance by testing in accordance with Method 7, 40 CFR Part 60, Appendix A.

e. Emission Limitation:

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Emissions Unit ID: **B002**

1.06 lbs/hr volatile organic compounds (VOC)

1.85 tpy VOC

Applicable Compliance Method:

Compliance shall be determined by multiplying the manufacturer supplied emission factor of 0.008 lb/gallon by 128.4 gallons/hr which results in 1.03 lb/hr. $0.008 \text{ lb/gal} \times 462,240 \text{ gal/yr} = 1.85 \text{ tpy}$. If required, the permittee shall demonstrate compliance by testing in accordance with Method 25, 40 CFR Part 60, Appendix A.

f. **Emission Limitation:**

10% opacity as a 6-minute average
(stack emissions)

Applicable Compliance Method:

OAC rule 3745-17-03(B)(1)

F. Miscellaneous Requirements

None

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Emissions Unit ID: **B003**

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.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	
Seville Diesel Generator Unit #3 - Caterpillar Model 3516B Packaged 2,628 BHP (17.53 mmBTU/hr input; 1825 kWe output) Diesel Generator Unit	OAC rule 3745-31-05(A)(3)	OAC rule 3745-17-07(A)
		OAC rule 3745-17-11(B)(5)(b)
		OAC rule 3745-18-06(G)
	OAC rule 3745-31-05(D)	

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Issued: To be entered upon final issuance

Emissions Unit ID: B003

Applicable Emissions
Limitations/Control Measures

0.062 lb particulates per mmBtu
actual heat input

1.94 tpy particulates

0.89 lb/hr sulfur dioxide (SO₂)

1.62 tpy SO₂

3.72 lb/hr carbon monoxide (CO)

6.70 tpy CO

47.69 lbs/hr nitrogen oxides (NO_x)

1.06 lbs/hr volatile organic
compounds (VOC)

1.85 tpy VOC

10% opacity as a 6-minute average
(stack emissions)

See A2.a - A.2.b below.

85.8 tpy NO_x for entire facility
(emissions units B001 - B003), as a
rolling 12-month summation.

See A.2.c below.

See A.2.d below.

See A.2.d below.

See A.2.d below.

2. Additional Terms and Conditions

- 2.a** The permittee shall only burn low sulfur diesel fuel, containing less than 0.05% sulfur by weight, in this emissions unit.

Issue

Emissions Unit ID: B003

- 2.b** The diesel generator shall be equipped with a low NO_x combustion control module and aftercoolers to minimize NO_x emissions.
- 2.c** The NO_x emissions from either this emissions unit or the entire facility (B001 - B003) shall not exceed 85.8 tpy based on a rolling 12-month summation.
- 2.d** The emissions limit based on this applicable rule is equivalent or less stringent than the limit established pursuant to OAC rule 3745-31-05.

B. Operational Restrictions

1. The maximum annual diesel fuel usage for the entire facility (B001 - B003) shall not exceed 462,240 gallons per year upon a rolling, twelve-month summation.

To ensure enforceability during the first 12 calendar months of operation following the issuance of this permit, the permittee shall not exceed the usage levels specified in the following table:

Month	Maximum Allowable Cumulative Diesel Fuel Usage (Gallons)
1-1	77,040
1-2	154,080
1-3	231,120
1-4	256,800
1-5	282,480
1-6	308,160
1-7	333,840
1-8	359,520
1-9	385,200
1-10	410,880
1-11	436,560
1-12	462,240

After the first twelve calendar months of operation following the issuance of this permit, compliance with the annual diesel fuel usage rate limitation shall be based upon a rolling, twelve-month summation.

C. Monitoring and/or Recordkeeping Requirements

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

AMP

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Emissions Unit ID: **B003**

Issued: To be entered upon final issuance

- a. the diesel fuel usage for each month; and
- b. the rolling, twelve month summation of the diesel fuel usage rates, beginning after the first 12 calendar months of operation following the issuance of the permit.

Also, during the first 12 calendar months of operation following the issuance of this permit, the permittee shall record the cumulative diesel fuel usage rate for each calendar month.

D. Reporting Requirements

1. The permittee shall submit deviation (excursion) reports which identify any exceedance of the rolling twelve month diesel fuel usage limitation and for the first 12 calendar months of operation following the issuance of this permit, all exceedances of the maximum allowable cumulative diesel fuel usage limits. These reports are due by the date described in Part 1 - General Terms and Conditions of this permit under section (A)(2).
2. The permittee shall also submit annual reports which specify the total diesel fuel usage for both this emissions unit and the entire facility. These reports shall be submitted by January 31 of each year and shall cover the previous calendar year.

E. 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:**

0.062 lb particulates per mmBtu actual heat input

1.94 tpy particulates

Applicable Compliance Method:

Compliance shall be based upon an emission factor supplied by the manufacturer of 0.006 lb/gal. This emissions unit burns 128.4 gallons per hour. $128.4 \times 0.006 \text{ lb/gal}$ divided by $17.53 \text{ mmBtu/hr} = 0.044 \text{ lb/mmBtu input}$. $0.006 \text{ lb/gal} \times 462,240 \text{ gallons/yr} = 2773 \text{ lb/yr}$ divided by $2000 \text{ lb/ton} = 1.39 \text{ tpy}$. If required, the permittee shall demonstrate compliance by testing in accordance with OAC rule 3745-17-03(B)(10) and Method 5, 40 CFR Part 60, Appendix A.

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Emissions Unit ID: **B003**

b. Emission Limitation:

0.89 lb/hr sulfur dioxide (SO₂)

1.62 tpy SO₂

Applicable Compliance Method:

Diesel fuel containing less than 0.05 percent sulfur by weight. The manufacturer supplied emission factor of 0.007 lb/gallon times 128.4 gallons/hr equals 0.898 lb/hr. 0.007 lb/gallon x 462,240 gallons/yr = 1.62 tpy. If required, the permittee shall demonstrate compliance by testing in accordance with Method 6, 40 CFR Part 60, Appendix A.

c. Emission Limitation:

3.72 lb/hr carbon monoxide (CO)

6.70 tpy CO

Applicable Compliance Method:

Compliance shall be determined by multiplying the manufacturer supplied emission factor of 0.029 lb/gal by 128.4 gal/hr which results in 3.72 lbs/hr. 0.029 lb/gal x 462,240 gal/yr = 6.7 tpy. If required, the permittee shall demonstrate compliance by testing in accordance with Method 10, 40 CFR Part 60, Appendix A.

d. Emission Limitation:

47.69 lbs/hr nitrogen oxides (NO_x)

85.8 tpy NO_x

85.8 tpy NO_x for entire facility (emissions units B001 - B003), as a rolling 12-month summation.

Applicable Compliance Method:

Compliance shall be determined by multiplying the manufacturer supplied emission factor of 0.371 lb/gal by 128.4 gallons/hr which results in 47.63 lbs/hr. 0.371 lb/gal x 462,240 gallons/yr, as a rolling, 12-month summation, for this emissions unit or all emissions units combined = 85.75 tpy. If required, the permittee shall demonstrate compliance by testing in accordance with Method 7, 40 CFR Part 60, Appendix A.

e. **Emission Limitation:**

1.06 lbs/hr volatile organic compounds (VOC)
1.85 tpy VOC

Applicable Compliance Method:

Compliance shall be determined by multiplying the manufacturer supplied emission factor of 0.008 lb/gallon by 128.4 gallons/hr which results in 1.03 lb/hr. $0.008 \text{ lb/gal} \times 462,240 \text{ gal/yr} = 1.85 \text{ tpy}$. If required, the permittee shall demonstrate compliance by testing in accordance with Method 25, 40 CFR Part 60, Appendix A.

f. **Emission Limitation:**

10% opacity as a 6-minute average
(stack emissions)

Applicable Compliance Method:

OAC rule 3745-17-03(B)(1)

F. **Miscellaneous Requirements**

None

NEW SOURCE REVIEW FORM B

PTI Number: 16-01997 Facility ID: 1652070028

FACILITY NAME AMP-Ohio, Seville Distributed Generation

FACILITY DESCRIPTION Three (3) Diesel Fired Electrical Generating Units. CITY/TWP Seville

SIC CODE 4911 SCC CODE 2-01-001-01 EMISSIONS UNIT ID B001

EMISSIONS UNIT DESCRIPTION Caterpillar Model 3516B Packaged 2,628 BHP Diesel Generator Unit

DATE INSTALLED 3/00

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		0.72 lb/hr	0.43	0.062 lb/mmBtu	1.94
PM ₁₀					
Sulfur Dioxide		0.89 lb/hr	0.53	0.89 lb/hr	1.62
Organic Compounds		1.06 lb/hr	0.64	1.06 lb/hr	1.85
Nitrogen Oxides		47.69 lb/hr	28.61	47.69 lb/hr	85.8
Carbon Monoxide		3.72 lb/hr	2.20	3.72 lb/hr	6.70
Lead					
Other: Air Toxics					

APPLICABLE FEDERAL RULES:

NSPS? No NESHAP? No PSD? No OFFSET POLICY? No

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

The use of low sulfur diesel fuel, low NOx combustion control module with aftercoolers

IS THIS SOURCE SUBJECT TO THE AIR TOXICS POLICY? Yes

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*? X YES NO

IDENTIFY THE AIR CONTAMINANTS: NOx

NEW SOURCE REVIEW FORM B

PTI Number: 16-01997

Facility ID: 1652070028

FACILITY NAME AMP-Ohio, Seville Distributed Generation

FACILITY DESCRIPTION Three (3) Diesel Fired Electrical

CITY/TWP Seville

Emissions Unit ID: **B003**

SIC CODE 4911

SCC CODE

2-01-001-01

EMISSIONS UNIT ID

B002

EMISSIONS UNIT DESCRIPTION Caterpillar Model 3516B Packaged 2,628 BHP Diesel Generator Unit

DATE INSTALLED

3/00

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		0.72 lb/hr	0.43	0.062 lb/mmBtu	1.94
PM ₁₀					
Sulfur Dioxide		0.89 lb/hr	0.53	0.89 lb/hr	1.62
Organic Compounds		1.06 lb/hr	0.64	1.06 lb/hr	1.85
Nitrogen Oxides		47.69 lbs/hr	28.61	47.69 lbs/hr	85.5
Carbon Monoxide		3.72 lbs/hr	2.20	3.72 lbs/hr	6.70
Lead					
Other: Air Toxics					

APPLICABLE FEDERAL RULES:

NSPS? No

NESHAP? No

PSD? No

OFFSET POLICY? No

WHAT IS THE BAT DETERMINATION, AND WHAT IS THE BASIS FOR THE DETERMINATION?The use of low sulfur diesel fuel, low NO_x combustion control module with aftercoolers

IS THIS SOURCE SUBJECT TO THE AIR TOXICS POLICY?

Yes

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*?

X

YES

NO

IDENTIFY THE AIR CONTAMINANTS:

NO_x

28 NEW SOURCE REVIEW FORM B

PTI Number: 16-01997

Facility ID: 1652070028

FACILITY NAME AMP-Ohio, Seville Distributed Generation

FACILITY DESCRIPTION Three (3) Diesel Fired Electrical

CITY/TWP Seville

Emissions Unit ID: **B003**

SIC CODE 4911

SCC CODE 2-01-001-01

EMISSIONS UNIT ID B003

EMISSIONS UNIT DESCRIPTION Caterpillar Model 3516B Packaged 2,628 BHP Diesel Generator Unit

DATE INSTALLED 3/00

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		0.72 lb/hr	0.43	0.062 lb/mmBtu	1.94
PM ₁₀					
Sulfur Dioxide		0.89 lb/hr	0.53	0.89 lb/hr	1.62
Organic Compounds		1.06 lb/hr	0.64	1.06 lb/hr	1.85
Nitrogen Oxides		47.69 lbs/hr	28.61	47.69 lbs/hr	85.8
Carbon Monoxide		3.72 lbs/hr	2.20	3.72 lbs/hr	6.70
Lead					
Other: Air Toxics					

APPLICABLE FEDERAL RULES:

NSPS? No

NESHAP? No

PSD? No

OFFSET POLICY? NO

WHAT IS THE BAT DETERMINATION, AND WHAT IS THE BASIS FOR THE DETERMINATION?The use of low sulfur diesel fuel, low NO_x combustion control module with aftercoolers

IS THIS SOURCE SUBJECT TO THE AIR TOXICS POLICY? Yes

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*?

X

YES

 NO

IDENTIFY THE AIR CONTAMINANTS:

NO_x

NEW SOURCE REVIEW FORM B

PTI Number: 16-01997

Facility ID: 1652070028

FACILITY NAME AMP-Ohio, Seville Distributed Generation

FACILITY DESCRIPTION Three (3) Diesel Fired Electrical

CITY/TWP Seville

Emissions Unit ID: **B003**

30 NEW SC

PTI Num

FACILITY

FACILITY DESCRIPTION

Three (3) Diesel Fired Electrical
Generating Units.

CITY/TWP

Emissions Unit ID: **B003** _____

Seville

3 **NEW SC**

PTI Num

FACILITY

Emissions Unit ID: **B003**

FACILITY DESCRIPTION Three (3) Diesel Fired Electrical
Generating Units.

CITY/TWP Seville

Please describe any hard copy information is being submitted with this recommendation (Please send hard copy information to Pam McGraner, DAPC Central Office - Air Quality Modeling and Planning):

Emission information, BAT analysis, modeling results

Please provide any additional permit specific notes as you deem necessary:

Facility wants to start construction 3/00, this might need to be rushed.

Permit To Install Synthetic Minor Write-Up

A. Source Description

AMP-Ohio is planning to install a new peaking station in Seville, Ohio, Medina County. The facility will generate electricity during the summer peaking seasons and will consist of three 17.53 mmBtu/hr diesel-fired electric generators. AMP-Ohio wishes to limit the annual fuel consumption to avoid Title V and PSD permitting requirements.

B. Facility Emissions

The facility will emit particulates, sulfur dioxide, organic compounds, nitrogen oxides and carbon monoxide. The only pollutant that has a major source potential to emit is NO_x. The facility has a potential to emit of 626 tpy NO_x.

C. Operating Limitations

AMP-Ohio has agreed to limit their annual fuel consumption to 462,240 gallons. This would restrict the facility's emissions to 85.9 tpy NO_x per 12-month period.

D. Conclusions

By restricting annual fuel consumption, the terms and conditions of this permit to install will limit the facility's NO_x emissions to less than Title V thresholds and allow to be classified as an area source. Excursion reports will be required each emissions unit to ensure compliance.

Please fill in the following for this permit:

TOTAL PERMIT TO INSTALL ALLOWABLE EMISSIONS

<u>Pollutant</u>	<u>Tons Per Year</u>
PM	5.82
SO₂	4.86
VOC	5.55
CO	20.1
NO_x	85.5

32 NEW SC

PTI Num

FACILITY

FACILITY DESCRIPTION

Three (3) Diesel Fired Electrical
Generating Units.

CITY/TWP

Emissions Unit ID: **B003** _____

Seville

38 NEW SC

PTI Num

FACILITY

FACILITY DESCRIPTION

Three (3) Diesel Fired Electrical
Generating Units.

Emissions Unit ID: **B003** _____
CITY/TWP Seville

Permit To Install Synthetic Minor Write-Up

A. Source Description

AMP-Ohio is planning to install a new peaking station in Seville, Ohio, Medina County. The facility will generate electricity during the summer peaking seasons and will consist of three 17.53 mmBtu/hr diesel-fired electric generators. AMP-Ohio wishes to limit the annual fuel consumption to avoid Title V and PSD permitting requirements.

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