



John R. Kasich, Governor
Mary Taylor, Lt. Governor
Craig W. Butler, Director

8/26/2015

Certified Mail

Chris Snider
 Miami Valley Hospital
 ONE WYOMING STREET
 DAYTON, OH 45409-2793

No	TOXIC REVIEW
No	SYNTHETIC MINOR TO AVOID MAJOR NSR
No	CEMS
Yes	MACT/GACT
Yes	NSPS
No	NESHAPS
No	NETTING
No	MODELING SUBMITTED
Yes	SYNTHETIC MINOR TO AVOID TITLE V
Yes	FEDERALLY ENFORCABLE PTIO (FEPTIO)
No	SYNTHETIC MINOR TO AVOID MAJOR GHG

RE: DRAFT AIR POLLUTION PERMIT-TO-INSTALL AND OPERATE

Facility ID: 0857040180
 Permit Number: P0118667
 Permit Type: Initial Installation
 County: Montgomery

Dear Permit Holder:

A draft of the Ohio Administrative Code (OAC) Chapter 3745-31 Air Pollution Permit-to-Install and Operate (PTIO) for the referenced facility has been issued for the emissions unit(s) listed in the Authorization section of 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 permit. A public notice will appear in the Ohio Environmental Protection Agency (EPA) Weekly Review and the local newspaper, Dayton Daily News. A copy of the public notice and the draft permit are enclosed. This permit can be accessed electronically on the Division of Air Pollution Control (DAPC) Web page, www.epa.ohio.gov/dapc by clicking the "Search for Permits" link under the Permitting topic on the Programs tab. Comments will be accepted as a marked-up copy of the draft permit or in narrative format. Any comments must be sent to the following:

Andrew Hall
 Permit Review/Development Section
 Ohio EPA, DAPC
 50 West Town Street Suite 700
 PO Box 1049
 Columbus, Ohio 43216-1049

and Regional Air Pollution Control Agency
 117 South Main Street
 Dayton, OH 45422-1280

Comments and/or a request for a public hearing will be accepted within 30 days of the date the notice is published in the newspaper. You will be notified if a public hearing is scheduled. A decision on issuing a final permit-to-install will be made after consideration of comments received and oral testimony if a public hearing is conducted. Any permit fee that will be due upon issuance of a final Permit-to-Install is indicated in the Authorization section. Please do not submit any payment now. If you have any questions, please contact Regional Air Pollution Control Agency at (937)225-4435.

Sincerely,

Michael E. Hopkins, P.E.
 Assistant Chief, Permitting Section, DAPC

Cc: U.S. EPA Region 5 Via E-Mail Notification
 RAPCA; Indiana; Kentucky

PUBLIC NOTICE

The following matters are the subject of this public notice by the Ohio Environmental Protection Agency. The complete public notice, including any additional instructions for submitting comments, requesting information, a public hearing, or filing an appeal may be obtained at: <http://epa.ohio.gov/actions.aspx> or Hearing Clerk, Ohio EPA, 50 W. Town St., Columbus, Ohio 43215. Ph: 614-644-2129 email: HClerk@epa.ohio.gov

Draft Air Pollution Permit-to-Install and Operate Initial Installation
Miami Valley Hospital

ONE WYOMING STREET,, Dayton, OH 45409-2793

ID#:P0118667

Date of Action: 8/26/2015

Permit Desc:FEPTIO for installation of four new replacement emergency generators..

The permit and complete instructions for requesting information or submitting comments may be obtained at: <http://epa.ohio.gov/dapc/permitsonline.aspx> by entering the ID # or: Dale Davidson, Regional Air Pollution Control Agency, 117 South Main Street, Dayton, OH 45422-1280. Ph: (937)225-4435



Permit Strategy Write-Up
Miami Valley Hospital
Permit Number: P0118667
Facility ID: 0857040180

Permit Strategy Write-Up

1. Check all that apply:

Synthetic Minor Determination

Netting Determination

2. Source Description:

Miami Valley Hospital (MVH), facility ID 0857040180 is currently classified as Title V (TV) for NO_x and SO₂. MVH submitted two PTIO applications that provided updated PTE determinations and requested to transition from a TV to a Synthetic Minor Title V (SMTV) facility. One application was for the installation of new units contained in this permit, and one application was for the existing permitted units contained in P0118904.

3. Facility Emissions and Attainment Status:

Miami Valley Hospital (MVH), facility ID 0857040180, is located in Montgomery County, which is attainment for all criteria pollutants. The updated PTE determinations show the facility is non-Title V for PE, SO₂, CO and VOC. With the new synthetic minor restrictions contained in this permit, the facility will be SMTV for NO_x.

4. Source Emissions:

There are currently 11 emergency standby generators and 12 small boilers (each < 10 mmBtu/hr) located at this facility. Considering the cumulative emissions from all the units combined, the facility's unrestricted NO_x PTE exceeds 100 tons per year making them potentially subject to Title V permit requirements. The boilers are identified as gas-fired boilers, but have capability to burn oil only during periods of emergency gas curtailment. MVH requested federally enforceable restrictions on the hours of operation for the generators and boilers to maintain the facility's NO_x emissions below TV applicability. Tables 1 and 2 below show the PTE for each emissions unit, and Table 3 summarizes the facility wide unrestricted and the SMTV restricted PTE.

Table 1. Generators		PTE-Unrestricted					PTE-Restricted				
		500 HRS/YEAR EACH					250 HRS/YEAR EACH				
UUID	mmBtu/hr	PE (TPY)	SO ₂ (TPY)	NO _x (TPY)	CO (TPY)	OC (TPY)	PE (TPY)	SO ₂ (TPY)	NO _x (TPY)	CO (TPY)	OC (TPY)
B004 ¹	15.32	0.24	0.01	12.26	3.26	0.34	0.12	0.00	6.13	1.63	0.17
B002	6.51	0.10	0.00	5.21	1.38	0.15	0.05	0.00	2.60	0.69	0.07
B003	6.51	0.10	0.00	5.21	1.38	0.15	0.05	0.00	2.60	0.69	0.07
B006	15.32	0.24	0.01	12.26	3.26	0.34	0.12	0.00	6.13	1.63	0.17
B014	2.63	0.07	0.00	2.10	0.56	0.06	0.03	0.00	1.05	0.28	0.03
B021	20.14	0.31	0.01	16.11	4.28	0.45	0.16	0.00	8.06	2.14	0.23
B022	20.14	0.31	0.01	16.11	4.28	0.45	0.16	0.00	8.06	2.14	0.23
B023	20.14	0.31	0.01	16.11	4.28	0.45	0.16	0.00	8.06	2.14	0.23
B024	9.73	0.15	0.00	7.78	2.07	0.22	0.08	0.00	3.89	1.03	0.11
B025	9.73	0.15	0.00	7.78	2.07	0.22	0.08	0.00	3.89	1.03	0.11
B026	5.48	0.08	0.00	4.38	1.16	0.12	0.04	0.00	2.19	0.58	0.06
B027	9.73	0.15	0.00	7.78	2.07	0.22	0.08	0.00	3.89	1.03	0.11
Total	126.06	1.98	0.05	100.85	26.79	2.84	0.99	0.02	50.42	13.39	1.42

¹ B004 not included in total. Being replaced by B027.

Table 2. Boilers		PTE-Unrestricted					PTE-Restricted				
		8760 HRS/YEAR EACH					4380 HRS/YEAR EACH				
EUID	mmBTU/hr	PM (TPY)	SO2 (TPY)	NOx (TPY)	CO (TPY)	OC (TPY)	PM (TPY)	SO2 (TPY)	NOx (TPY)	CO (TPY)	OC (TPY)
B007	8.37	0.07 each	0.02 each	3.50 each	2.94 each	0.39 each	0.03 each	0.01 each	1.75 each	1.47 each	0.19 each
B008	8.37										
B009	8.37										
B010	8.37										
B011	8.37										
B012	8.37										
B013	8.37										
B015	8.37										
B016	8.37										
B018	8.37										
B019	8.37										
Total	100.44	0.80	0.25	42.05	35.32	4.63	0.40	0.13	21.02	17.66	2.31

Table 3. Facility-Wide PTE					
Unrestricted					
	PE (TPY)	SO2 (TPY)	NOx (TPY)	CO (TPY)	OC (TPY)
Generators	1.98	0.05	100.85	26.79	2.84
Boilers	0.80	0.25	42.05	35.32	4.63
Total	2.78	0.30	142.90	62.11	7.46
Restricted					
	PE (TPY)	SO2 (TPY)	NOx (TPY)	CO (TPY)	OC (TPY)
Generators each @ 250 hrs/year	0.99	0.02	50.42	13.39	1.42
Boilers each 4380 hrs/year	0.40	0.13	21.02	17.66	2.31
Total	1.39	0.15	71.45	31.05	3.73

5. Conclusion:

The facility's PTE for PE, SO2, CO and VOC is non-major for Title V applicability. With the federally enforceable SMTV restrictions on the hours of operation contained in this permit for new emissions units B024 through B027, and the federally enforceable SMTV restrictions contained in permit P0118904 for the existing units located at the facility, the facility will be SMTV for NOx avoiding Title V permitting requirements.

6. Please provide additional notes or comments as necessary:

None



7. Total Permit Allowable Emissions Summary (for informational purposes only):

<u>Pollutant</u>	<u>Tons Per Year</u>
PE	1.39
SO2	0.15
NOx	71.45
CO	31.05
VOC	3.73



DRAFT

**Division of Air Pollution Control
Permit-to-Install and Operate
for
Miami Valley Hospital**

Facility ID:	0857040180
Permit Number:	P0118667
Permit Type:	Initial Installation
Issued:	8/26/2015
Effective:	To be entered upon final issuance
Expiration:	To be entered upon final issuance



Division of Air Pollution Control
Permit-to-Install and Operate
for
Miami Valley Hospital

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Draft Permit-to-Install and Operate

Miami Valley Hospital

Permit Number: P0118667

Facility ID: 0857040180

Effective Date: To be entered upon final issuance

Authorization

Facility ID: 0857040180
Application Number(s): A0051726, A0052948, A0053167
Permit Number: P0118667
Permit Description: FEPTIO for installation of four new replacement emergency generators.
Permit Type: Initial Installation
Permit Fee: \$2,400.00 *DO NOT send payment at this time, subject to change before final issuance*
Issue Date: 8/26/2015
Effective Date: To be entered upon final issuance
Expiration Date: To be entered upon final issuance
Permit Evaluation Report (PER) Annual Date: To be entered upon final issuance

This document constitutes issuance to:

Miami Valley Hospital
ONE WYOMING STREET
Dayton, OH 45409-2793

of a Permit-to-Install and Operate for the emissions unit(s) identified on the following page.

Ohio Environmental Protection Agency (EPA) District Office or local air agency responsible for processing and administering your permit:

Regional Air Pollution Control Agency
117 South Main Street
Dayton, OH 45422-1280
(937)225-4435

The above named entity is hereby granted this Permit-to-Install and Operate for the air contaminant source(s) (emissions unit(s)) listed in this section 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 described emissions unit(s) will operate in compliance with applicable State and Federal laws and regulations.

This permit is granted subject to the conditions attached hereto.

Ohio Environmental Protection Agency

Craig W. Butler
Director



Authorization (continued)

Permit Number: P0118667

Permit Description: FEPTIO for installation of four new replacement emergency generators.

Permits for the following Emissions Unit(s) or groups of Emissions Units are in this document as indicated below:

Group Name: standby generators < 10 mmBtu/hr

Emissions Unit ID:	B024
Company Equipment ID:	NW-1 ER Generator
Superseded Permit Number:	
General Permit Category and Type:	Not Applicable
Emissions Unit ID:	B025
Company Equipment ID:	ER generator
Superseded Permit Number:	
General Permit Category and Type:	Not Applicable
Emissions Unit ID:	B026
Company Equipment ID:	5.48MMBtu emergency generator (replaced B001)
Superseded Permit Number:	
General Permit Category and Type:	Not Applicable
Emissions Unit ID:	B027
Company Equipment ID:	Replacement for B004-- NW#2
Superseded Permit Number:	
General Permit Category and Type:	Not Applicable



Draft Permit-to-Install and Operate
Miami Valley Hospital
Permit Number: P0118667
Facility ID: 0857040180
Effective Date: To be entered upon final issuance

A. Standard Terms and Conditions

1. What does this permit-to-install and operate ("PTIO") allow me to do?

This permit allows you to install and operate the emissions unit(s) identified in this PTIO. You must install and operate the unit(s) in accordance with the application you submitted and all the terms and conditions contained in this PTIO, including emission limits and those terms that ensure compliance with the emission limits (for example, operating, recordkeeping and monitoring requirements).

2. Who is responsible for complying with this permit?

The person identified on the "Authorization" page, above, is responsible for complying with this permit until the permit is revoked, terminated, or transferred. "Person" means a person, firm, corporation, association, or partnership. The words "you," "your," or "permittee" refer to the "person" identified on the "Authorization" page above.

The permit applies only to the emissions unit(s) identified in the permit. If you install or modify any other equipment that requires an air permit, you must apply for an additional PTIO(s) for these sources.

3. What records must I keep under this permit?

You must keep all records required by this permit, including monitoring data, test results, strip-chart recordings, calibration data, maintenance records, and any other record required by this permit for five years from the date the record was created. You can keep these records electronically, provided they can be made available to Ohio EPA during an inspection at the facility. Failure to make requested records available to Ohio EPA upon request is a violation of this permit requirement.

4. What are my permit fees and when do I pay them?

There are two fees associated with permitted air contaminant sources in Ohio:

- PTIO fee. This one-time fee is based on a fee schedule in accordance with Ohio Revised Code (ORC) section 3745.11, or based on a time and materials charge for permit application review and permit processing if required by the Director.

You will be sent an invoice for this fee after you receive this PTIO and payment is due within 30 days of the invoice date. You are required to pay the fee for this PTIO even if you do not install or modify your operations as authorized by this permit.

- Annual emissions fee. Ohio EPA will assess a separate fee based on the total annual emissions from your facility. You self-report your emissions in accordance with Ohio Administrative Code (OAC) Chapter 3745-78. This fee assessed is based on a fee schedule in ORC section 3745.11 and funds Ohio EPA's permit compliance oversight activities. For facilities that are permitted as synthetic minor sources, the fee schedule is adjusted annually for inflation. Ohio EPA will notify you when it is time to report your emissions and to pay your annual emission fees.

5. When does my PTIO expire, and when do I need to submit my renewal application?

This permit expires on the date identified at the beginning of this permit document (see "Authorization" page above) and you must submit a renewal application to renew the permit. Ohio EPA will send a renewal notice to you approximately six months prior to the expiration date of this permit. However, it is

very important that you submit a complete renewal permit application (postmarked prior to expiration of this permit) even if you do not receive the renewal notice.

If a complete renewal application is submitted before the expiration date, Ohio EPA considers this a timely application for purposes of ORC section 119.06, and you are authorized to continue operating the emissions unit(s) covered by this permit beyond the expiration date of this permit until final action is taken by Ohio EPA on the renewal application.

6. What happens to this permit if my project is delayed or I do not install or modify my source?

This PTIO expires 18 months after the issue date identified on the "Authorization" page above unless otherwise specified if you have not (1) started constructing the new or modified emission sources identified in this permit, or (2) entered into a binding contract to undertake such construction. This deadline can be extended by up to 12 months, provided you apply to Ohio EPA for this extension within a reasonable time before the 18-month period has ended and you can show good cause for any such extension.

7. What reports must I submit under this permit?

An annual permit evaluation report (PER) is required in addition to any malfunction reporting required by OAC rule 3745-15-06 or other specific rule-based reporting requirement identified in this permit. Your PER due date is identified in the Authorization section of this permit.

8. If I am required to obtain a Title V operating permit in the future, what happens to the operating provisions and PER obligations under this permit?

If you are required to obtain a Title V permit under OAC Chapter 3745-77 in the future, the permit-to-operate portion of this permit will be superseded by the issued Title V permit. From the effective date of the Title V permit forward, this PTIO will effectively become a PTI (permit-to-install) in accordance with OAC rule 3745-31-02(B). The following terms and conditions of this permit will no longer be applicable after issuance of the Title V permit: Section B, Term 1.b) and Section C, for each emissions unit, Term a)(2).

The PER requirements in this permit remain effective until the date the Title V permit is issued and is effective, and cease to apply after the effective date of the Title V permit. The final PER obligation will cover operations up to the effective date of the Title V permit and must be submitted on or before the submission deadline identified in this permit on the last day prior to the effective date of the Title V permit.

9. What are my obligations when I perform scheduled maintenance on air pollution control equipment?

You must perform scheduled maintenance of air pollution control equipment in accordance with OAC rule 3745-15-06(A). If scheduled maintenance requires shutting down or bypassing any air pollution control equipment, you must also shut down the emissions unit(s) served by the air pollution control equipment during maintenance, unless the conditions of OAC rule 3745-15-06(A)(3) are met. Any emissions that exceed permitted amount(s) under this permit (unless specifically exempted by rule) must be reported as deviations in the annual permit evaluation report (PER), including nonexempt excess emissions that occur during approved scheduled maintenance.

10. Do I have to report malfunctions of emissions units or air pollution control equipment? If so, how must I report?

If you have a reportable malfunction of any emissions unit(s) or any associated air pollution control system, you must report this to the Regional Air Pollution Control Agency in accordance with OAC rule 3745-15-06(B). Malfunctions that must be reported are those that result in emissions that exceed permitted emission levels. It is your responsibility to evaluate control equipment breakdowns and operational upsets to determine if a reportable malfunction has occurred.

If you have a malfunction, but determine that it is not a reportable malfunction under OAC rule 3745-15-06(B), it is recommended that you maintain records associated with control equipment breakdown or process upsets. Although it is not a requirement of this permit, Ohio EPA recommends that you maintain records for non-reportable malfunctions.

11. Can Ohio EPA or my local air agency inspect the facility where the emission unit(s) is/are located?

Yes. Under Ohio law, the Director or his authorized representative may inspect the facility, conduct tests, examine records or reports to determine compliance with air pollution laws and regulations and the terms and conditions of this permit. You must provide, within a reasonable time, any information Ohio EPA requests either verbally or in writing.

12. What happens if one or more emissions units operated under this permit is/are shut down permanently?

Ohio EPA can terminate the permit terms associated with any permanently shut down emissions unit. "Shut down" means the emissions unit has been physically removed from service or has been altered in such a way that it can no longer operate without a subsequent "modification" or "installation" as defined in OAC Chapter 3745-31.

You should notify Ohio EPA of any emissions unit that is permanently shut down by submitting a certification that identifies the date on which the emissions unit was permanently shut down. The certification must be submitted by an authorized official from the facility. You cannot continue to operate an emission unit once the certification has been submitted to Ohio EPA by the authorized official.

You must comply with all recordkeeping and reporting for any permanently shut down emissions unit in accordance with the provisions of the permit, regulations or laws that were enforceable during the period of operation, such as the requirement to submit a PER, air fee emission report, or malfunction report. You must also keep all records relating to any permanently shutdown emissions unit, generated while the emissions unit was in operation, for at least five years from the date the record was generated.

Again, you cannot resume operation of any emissions unit certified by the authorized official as being permanently shut down without first applying for and obtaining a permit pursuant to OAC Chapter 3745-31.

13. Can I transfer this permit to a new owner or operator?

You can transfer this permit to a new owner or operator. If you transfer the permit, you must follow the procedures in OAC Chapter 3745-31, including notifying Ohio EPA or the local air agency of the change in ownership or operator. Any transferee of this permit must assume the responsibilities of the transferor permit holder.

14. Does compliance with this permit constitute compliance with OAC rule 3745-15-07, "air pollution nuisance"?

This permit and OAC rule 3745-15-07 prohibit operation of the air contaminant source(s) regulated under this permit in a manner that causes a nuisance. Ohio EPA can require additional controls or modification of the requirements of this permit through enforcement orders or judicial enforcement action if, upon investigation, Ohio EPA determines existing operations are causing a nuisance.

15. What happens if a portion of this permit is determined to be invalid?

If a portion of this permit is determined to be invalid, the remainder of the terms and conditions remain valid and enforceable. The exception is where the enforceability of terms and conditions are dependent on the term or condition that was declared invalid.



Draft Permit-to-Install and Operate
Miami Valley Hospital
Permit Number: P0118667
Facility ID: 0857040180
Effective Date: To be entered upon final issuance

B. Facility-Wide Terms and Conditions

1. This permit document constitutes a permit-to-install issued in accordance with ORC 3704.03(F) and a permit-to-operate issued in accordance with ORC 3704.03(G).
 - a) For the purpose of a permit-to-install document, the facility-wide terms and conditions identified below are federally enforceable with the exception of those listed below which are enforceable under state law only.
 - (1) None.
 - b) For the purpose of a permit-to-operate document, the facility-wide terms and conditions identified below are enforceable under state law only with the exception of those listed below which are federally enforceable.
 - (1) B.2. through B.9.
2. 40 CFR 63 Subpart ZZZZ - National Emission Standards for Hazardous Air Pollutants (NESHAP) for Reciprocating Internal Combustion Engines (RICE)

The Ohio EPA has determined that this facility is subject to the requirements of 40 CFR Part 63 Subpart ZZZZ, the National Emission Standards for Hazardous Air Pollutants (NESHAP) for Reciprocating Internal Combustion Engines. At this time, the Ohio EPA is not accepting delegation for area sources subject to the Maximum Achievable Control Technology NESHAP (MACT) rules. The requirements of these rules, that are applicable to the area source(s) for hazardous air pollutants (HAP) identified in this permit, shall be enforceable by U.S. EPA Region 5. The complete requirements of this rule (including the Part 63 General Provisions) may be accessed via the Internet from the Electronic code of Federal Regulations (e-CFR) website <http://www.ecfr.gov/> or by contacting the appropriate Ohio EPA District Office or Local Air Agency.

The emergency, compression ignition (CI) reciprocating internal combustion engine(s) (RICE), emission units B002, B003, B006, and B014, installed before 6/12/06 and located at an area source for hazardous air pollutants (HAPs), are not subject to the General Provisions to Part 63, Subpart A, the National Emission Standards for Hazardous Air Pollutants (NESHAP) or its Subpart ZZZZ, for Stationary Reciprocating Internal Combustion Engines, and no initial notification is required. In order for these engines to be considered an emergency stationary RICE under this subpart and exempt from standards of its Subpart ZZZZ, they must be operated as an emergency stationary RICE according to the requirements specified in the rule.

The new emergency or limited use compression ignition (CI) reciprocating internal combustion engine(s) (RICE), located at an area source for hazardous air pollutants (HAPs), are subject to the requirements of the National Emission Standards for Hazardous Air Pollutants (NESHAP) for Stationary Reciprocating Internal Combustion Engines, Part 63, Subpart ZZZZ. The new stationary CI RICE, emissions units B021 through B027, installed on or after 6/12/06, shall meet the requirements of Part 63, Subpart ZZZZ upon startup, through demonstration of compliance with the New Source Performance Standards for Stationary Compression Ignition Internal Combustion Engines, Part 60, Subpart IIII.

3. The combined Nitrogen Oxides (NO_x) emissions from all of the emissions units in operation at this facility shall not exceed 71.45 tons as a rolling 12-month summation.

4. The combined NOx emissions from the emissions units identified below shall not exceed the rolling 12-month limitations listed in the following table:

	Emissions Unit ID Number	Emissions Unit Description	Rolling 12-Month NOx Emissions Limitation (tons)	Rolling 12-Month Operating Limitation (hours)
a)	B002	6.51 mmBtu/hour diesel standby generator (947 hp)	2.60	250
b)	B003	6.51mmBtu/hour, diesel standby generator (947 hp)	2.60	250
c)	B006	15.32mmBtu/hour, diesel-fired standby generator (2381 hp)	6.13	250
d)	B014	2.63 mmBtu/hour, diesel-fired standby generator (423 hp)	1.05	250
e)	B021	20.14mmBtu/hr standby diesel generator (3058 hp)	8.06	250
f)	B022	20.14mmBtu/hr standby diesel generator (3058 hp)	8.06	250
g)	B023	20.14mmBtu/hr standby diesel generator (3058 hp)	8.06	250
h)	B024	9.73mmBtu/hr diesel standby generator (1495 hp)	3.89	250
i)	B025	9.73mmBtu/hr diesel standby generator (1495 hp)	3.89	250
j)	B026	5.48 mm/Btu diesel standby generator (896 hp)	2.19	250
k)	B027	9.73mmBtu/hr diesel generator(1495hp)	3.89	250
l)	B007	8.37 mmBtu/hr gas boiler	1.75	4380
m)	B008	8.37 mmBtu/hr gas boiler	1.75	4380
n)	B009	8.37 mmBtu/hr gas boiler	1.75	4380
o)	B010	8.37 mmBtu/hr gas boiler	1.75	4380
p)	B011	8.37 mmBtu/hr gas boiler	1.75	4380
q)	B012	8.37 mmBtu/hr gas boiler	1.75	4380
r)	B013	8.37 mmBtu/hr gas boiler	1.75	4380
s)	B015	8.37 mmBtu/hr gas boiler	1.75	4380
t)	B016	8.37 mmBtu/hr gas boiler	1.75	4380
u)	B018	8.37 mmBtu/hr gas boiler	1.75	4380
v)	B019	8.37 mmBtu/hr gas boiler	1.75	4380
w)	B020	8.37 mmBtu/hr gas boiler	1.75	4380

5. The permittee shall collect and record the following information each month for each emissions unit listed [i.e., 2.a) through 2.w)]above in the table in B.4.:

- a) The NOx emission rate for each emissions unit, in tons, (calculated according to the applicable FEPTIO for each emissions unit);

- b) The NOx emissions rate combined for each emissions unit, in tons, (the summation of the monthly NOx emissions rate for each emissions unit);
- c) The rolling 12-month combined NOx emissions rate for the facility, in tons, (the summation of the NOx emissions calculated in 5.b) for the previous 12-months).

With the exception of new emissions units B027, the emissions units at the facility have been in operation for more than 12 months and, as such, the permittee has existing records to generate the rolling 12-month NOx emissions rates and operating limitations upon issuance of this permit. The monthly NOx emissions rates and operating limitations for the first 12 months of operation for emissions unit B027 are addressed in Section C. Emissions Unit Terms and Conditions of the FEPTIO for those emissions units.

6. The permittee shall submit quarterly deviation (excursion) reports, in accordance with the Standard Terms and Conditions, of this permit, of the following information:

- a) An identification of each month during which the rolling, 12-month summation of the NOx emissions rate (from the facility) exceeded 71.45 tons, and the actual rolling, 12-month summation of the combined NOx emissions rate for each such month.

If no deviations (excursions) occurred during a calendar quarter, the permittee shall submit a report that states that no deviations (excursions) occurred during the quarter.

The quarterly reports shall be submitted, each year by January 31 (covering October to December), April 30 (covering January to March), July 31 (covering April to June), and October 31 (covering July to September), unless an alternative schedule has been established and approved by the Director (the appropriate District Office or local air agency). Unless other arrangements have been approved by the Director, all notifications and reports shall be submitted through the Ohio EPA's eBusiness Center: Air Services online web portal.

7. The permittee shall submit annual reports that summarize the annual emissions combined emissions of the NOx for the facility. The reports shall be submitted by April 15 of each year. This reporting requirement may be satisfied by including and identifying the specific emission data for this emissions unit in the annual Synthetic Minor Title V Fee Emissions Report.

8. All applications, notifications or reports required by terms and conditions in this permit to be submitted or "reported in writing" are to be submitted to Ohio EPA through the Ohio EPA's eBusiness Center: Air Services web service ("Air Services"). Ohio EPA will accept hard copy submittals on an as-needed basis if the permittee cannot submit the required documents through the Ohio EPA eBusiness Center. In the event of an alternative hard copy submission in lieu of the eBusiness Center, the post-marked date or the date the document is delivered in person will be recognized as the date submitted. Electronic submission of applications, notifications, or reports required to be submitted to Ohio EPA fulfills the requirement to submit the required information to the Director, the District Office or Local Air Agency, and/or any other individual or organization specifically identified as an additional recipient identified in this permit unless otherwise specified. Consistent with OAC rule 3745-15-03, the required application, notification or report is considered to be "submitted" on the date the submission is successful using a valid electronic signature. Signature by the signatory authority may be represented as provided through procedures established in Air Services.



Draft Permit-to-Install and Operate

Miami Valley Hospital

Permit Number: P0118667

Facility ID: 0857040180

Effective Date: To be entered upon final issuance

9. Compliance with the emission limitations in B.3 shall be determined in accordance with the following methods:

a) Emissions Limitation:

The combined Nitrogen Oxides (NO_x) emissions from all of the emissions units in operation at this facility shall not exceed 71.45 tons as a rolling 12-month summation.

Applicable Compliance Method:

Compliance shall be based on the record keeping specified in B.5.



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Miami Valley Hospital
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C. Emissions Unit Terms and Conditions

1. Emissions Unit Group - standby generators < 10 mmBtu/hr: B024, B025, B026, B027

EU ID	Operations, Property and/or Equipment Description
B024	9.73MMBtu/hr diesel-fired standby generator (1495 hp, 2007 model year and later CI engine, < than 10 L/cylinder and > 750 hp and <= 3000 hp)
B025	9.73MMBtu/hr diesel-fired standby generator (1495 hp, 2007 model year and later Clengine, < than 10 L/cylinder and > 750 hp and <= 3000 hp)
B026	5.48 MMBtu diesel-fired standby generator (896 hp, 2007 model year and later Clengine, < than 10 L/cylinder and > 750 hp and <= 3000 hp)
B027	9.73MMBtu/hr diesel-fired standby generator (1495hp, 2007 model year and later Clengine, < than 10 L/cylinder and > 750 hp and <= 3000 hp)

a) This permit document constitutes a permit-to-install issued in accordance with ORC 3704.03(F) and a permit-to-operate issued in accordance with ORC 3704.03(G).

(1) For the purpose of a permit-to-install document, the emissions unit terms and conditions identified below are federally enforceable with the exception of those listed below which are enforceable under state law only.

a. None.

(2) For the purpose of a permit-to-operate document, the emissions unit terms and conditions identified below are enforceable under state law only with the exception of those listed below which are federally enforceable.

a. b)(1)a. through c., b)(1)f., b)(1)i., b)(2)a. through d., b)(2)g., c)(1) through (5), d)(1) through (5), e)(3) through (8).

b) Applicable Emissions Limitations and/or Control Requirements

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

	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
a.	40 CFR Part 60, Subpart IIII 40 CFR 60.4205(b) 40 CFR 60.4202(a)(2) Table 1 to 40 CFR 89.112, Tier 2	The exhaust emissions from this engine shall not exceed: 0.20 gram PM/kW-hr (0.15 g/bhp-hr) 6.4 grams NOx + NMHC/kW-hr (4.8 g/bhp-hr) 3.5 grams CO/kW-hr



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	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
		(2.6 g/bhp-hr) See terms b)(2)a. through c.
b.	40 CFR 60.4207(b) 40 CFR 80.510(b)	The sulfur content of the diesel fuel burned in this emissions unit shall not exceed 15 ppm or 0.0015% sulfur by weight. See terms b)(2)c., c(2), d(1), and e(3).
c.	40 CFR 89.113 (certified by manufacturer)	20% opacity during the acceleration mode 15% opacity during the lugging mode 50% opacity during the peaks in either the acceleration or lugging modes
d.	OAC rule 3745-31-05(A)(3)	The Best Available Technology (BAT) requirement for particulate (PM), sulfur dioxide (SO ₂), nitrogen oxides (NO _x), volatile organic compound (VOC) carbon monoxide (CO) emissions established pursuant to this rule are equivalent to the requirements established pursuant to 40 CFR Part 60, Subpart IIII. See b)(2)e. below.
e.	OAC rule 3745-31-05(A)(3)(3)(a)(ii) June 30, 2008	The BAT requirements under OAC rule 3745-31-05(A)(3) do not apply to the PM, SO ₂ , NO _x , VOC and CO emissions from these air contaminant sources since the potential to emit is less than 10 tons/year each. See b)(2)f. below.
f.	OAC rule 3745-31-05(D) (Synthetic minor to avoid Title V)	The NO _x emissions from and the operating hours for each emissions unit shall not exceed the following: <u>B024:</u> 3.89 tons NO _x based upon a rolling, 12-month summation; and 250 operating hours based upon on a rolling, 12-month summation



	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
		<p><u>B025:</u> 3.89tons NOx based upon a rolling, 12-month summation; and 250 operating hours based upon on a rolling, 12-month summation</p> <p><u>B026:</u> 2.19tons NOx based upon a rolling, 12-month summation; and 250 operating hours based upon on a rolling, 12-month summation</p> <p><u>B027:</u> 3.89tons NOx based upon a rolling, 12-month summation; and 250 operating hours based upon on a rolling, 12-month summation</p> <p>See Section B.3. through B.9. of Facility-Wide Terms and Conditions and b)(2)g.</p>
g.	OAC rule 3745-17-11(B)(5)	The emission limitation specified by this rule is less stringent than the emission limitation established for PE pursuant to 40 CFR Part 60, Subpart IIII.
h.	OAC rule 3745-17-07(A)(1)	Visible particulate emissions from the exhaust stack serving this emissions unit shall not exceed twenty (20) percent opacity, as a six-minute average, except as specified by rule.
i.	40 CFR 63 Subpart ZZZZ 40 CFR 63.6590(c)	A new area source operating in compliance with Part 60 Subpart IIII is the demonstration of compliance for 40 CFR 63 Subpart ZZZZ.

(2) Additional Terms and Conditions

- a. The emergency stationary compression ignition (CI) internal combustion engine (ICE) is subject to and shall be operated in compliance with the requirements of 40 CFR Part 60, Subpart IIII, the standards of performance for stationary CI ICE.
- b. The emergency stationary CI ICE has been or shall be purchased certified by the manufacturer to emission standards as stringent as those identified in 40 CFR 60.4202(a)(2) and found in Tier 2 of 40 CFR 89.112, Table 1, for engines greater

than 750 horsepower (560 kilowatt), and to the opacity standards found in 40 CFR 89.113.

- c. The quality of the diesel fuel burned in this emissions unit shall meet the following specifications on an “as received” basis:
 - i. a sulfur content which is sufficient to comply with the allowable sulfur dioxide emission limitation of 0.0015 pound sulfur dioxide/MMBtu actual heat input; and 15 ppm sulfur or 0.0015% sulfur by weight;
 - ii. a minimum cetane index of 40 or a maximum aromatic content of 35 volume percent; and
 - iii. a heating value greater than 135,000 Btu/gallon.

Compliance with the above-mentioned specifications shall be determined by using the analytical results provided by the permittee or oil supplier for each shipment of oil.

- d. The emergency stationary ICE shall meet the following criteria, as applicable:
 - i. The stationary ICE shall be operated to provide electrical power or mechanical work during an emergency situation, to include power for critical networks or equipment at the facility when electric power from the local utility (or the normal power source, if the facility runs on its own power production) is interrupted, or where the stationary ICE is used to pump water for a fire or flood, etc.;
 - ii. The stationary ICE may be operated under limited circumstances for emergency demand response or periods where there is a deviation of voltage or frequency of 5% or more above the standard and as specified in 40 CFR 60.4211(f); and
 - iii. The stationary ICE may operate as part of a financial arrangement with another entity in situations as allowed in 40 CFR 60.4211(f)(2)(ii) or (iii) and 40 CFR 60.4211(f)(3)(i).

The emergency stationary ICE must comply with the applicable requirements specified in 40 CFR 60.4211(f) in order to be considered emergency stationary ICE under Part 60 Subpart IIII.

- e. The Best Available Technology (BAT) limits applies until U.S. EPA approves pursuant to Ohio Administrative Code (OAC) paragraph 3745-31-05(A)(3)(a)(ii) (the less than 10 tons per year BAT exemption) into the Ohio State Implementation Plan (SIP).
- f. These requirements apply once U.S. EPA approves OAC paragraph 3745-31-05(A)(3)(a)(ii) (the less than 10 tons per year BAT exemption) as part of the Ohio SIP.



- g. The maximum annual operating hours for emissions unit each emissions unit shall not exceed 250 hours, based upon a rolling, 12-month summation of the operating hours.

Emissions unit B024, B025 and B026 have been in operation for more than 12 months and, as such, the permittee has existing records to generate the rolling 12-month NOx emissions rates and operating limitations for these units upon issuance of this permit.

For emissions unit B027, to ensure enforceability during the first 12 calendar months of operation or the first 12 calendar months following the issuance of this permit, where 11 months of number of hours of operation records are not available, the permittee shall not exceed the operating hours and emissions levels as specified in the following:

<u>Month(s)</u>	<u>Maximum Allowable Cumulative Operating Hours)</u>	<u>Maximum Allowable NOx Emissions (tons)</u>
1	250	3.89
1-2	250	3.89
1-3	250	3.89
1-4	250	3.89
1-5	250	3.89
1-6	250	3.89
1-7	250	3.89
1-8	250	3.89
1-9	250	3.89
1-10	250	3.89
1-11	250	3.89
1-12	250	3.89

After the first 12 calendar months of operation or the first 12 calendar months following the issuance of this permit, compliance with the annual operating hours restriction shall be based upon a rolling, 12-month summation of the monthly operating hours.

- h. No. 2 diesel fuel delivered to the facility shall be stored only in dedicated vessels that are clearly identified for storage of No. 2 diesel fuel.

c) Operational Restrictions

- (1) The emergency stationary CI ICE and any control device shall be installed, operated, and maintained according to the manufacturer’s emission-related written instructions and the permittee shall only change those emission-related settings that are allowed by the manufacturer. The CI ICE must also be installed and operated to meet the applicable requirements from 40 CFR Part 89, Control of Emissions from New and In-use Non-road CI ICE; and Part 1068, the General Compliance Provisions for Engine Programs. The permittee shall operate and maintain the stationary CI ICE to achieve the emissions standards established in 40 CFR 60.4205 over the entire life of the engine(s).

- (2) Diesel fuel burned in the CI, ICE shall not exceed the limit for sulfur as specified by 40 CFR 80.510(b), i.e., the maximum sulfur content of diesel fuel shall not exceed 15 ppm or 0.0015% sulfur by weight.
- (3) The emergency stationary ICE must be operated according to the following requirements in order to be considered an emergency stationary ICE under Part 60 Subpart IIII, otherwise it shall meet all of the requirements for non-emergency engines.
 - a. The emergency stationary ICE may be used at the facility in emergency situations with no restriction on time.
 - b. The emergency stationary ICE may be operated for any combination of the following purposes for a maximum of 100 hours per calendar year:
 - i. The emergency stationary ICE may be used at the facility in non-emergency situations for 50 hours per year, but cannot be used for peak shaving or non-emergency demand response, or to generate income for a facility to an electric grid or otherwise supply power as part of a financial agreement except where meeting all of the conditions identified in 40 CFR 60.4211(f)(3)(i).
 - ii. The emergency stationary ICE may be operated for maintenance checks and readiness testing, provided that the tests are recommended by federal, state, or local government, the manufacturer, the vendor, the regional transmission organization or equivalent balancing authority and transmission operator, or the insurance company associated with the engine. Maintenance and testing of the emergency ICE may exceed 100 hours per calendar year, if the permittee maintains records indicating that federal, state, or local standards require the additional hours or the permittee may petition the Director for approval of additional hours for maintenance checks and readiness testing.
 - iii. The emergency stationary ICE may be operated for emergency demand response for periods during which the Reliability Coordinator under the North American Electric Reliability Corporation (NERC) Reliability Standard EOP-002-3, Capacity and Energy Emergencies (incorporated by reference, 40 CFR 60.17), or other authorized entity (as determined by the Reliability Coordinator), has declared an Energy Emergency Alert Level 2, as defined in the NERC Reliability Standard EOP-002-3.
 - iv. The emergency stationary ICE may be operated for periods where there is a deviation of voltage or frequency of 5% or greater below standard voltage or frequency.

In order to qualify for the emergency standards the permittee shall only operate the emergency stationary ICE during emergencies, for maintenance and testing, for emergency demand response, for 50 hours per year for non-emergencies situations, and as allowed in 40 CFR 60.4211(f).

- (4) The emergency stationary ICE may be operated for up to 50 hours per calendar year in non-emergency situations. The 50 hours of operation in non-emergency situations are counted as part of the 100 hours of operation per calendar year for maintenance and readiness testing, emergency demand response, and for deviations from the standard voltage or frequency. The 50 hours per year for non-emergency situations can be used for peak shaving, non-emergency demand response, or to generate income from supplying power to an electric grid or as part of a financial arrangement with another entity, if **all** of the following conditions are met:
 - a. the engine is dispatched by the local balancing authority or local transmission and distribution system operator;
 - b. the dispatch is intended to mitigate local transmission and/or distribution limitations so as to avert potential voltage collapse or line overloads that could lead to the interruption of power supply in a local area or region;
 - c. the dispatch follows reliability, emergency operation or similar protocols that follow specific NERC, regional, state, public utility commission or local standards or guidelines;
 - d. the power is provided only to the facility itself or to support the local transmission and distribution system; and
 - e. the permittee maintains the records of the entity that dispatches the engine and the specific NERC, regional, state, public utility commission, or local standards or guidelines that are being followed for dispatching the engine.
 - (5) The maximum annual operating hours for each emissions unit B024, B025, B026 and B027 shall not exceed 250 hours based upon a rolling, 12-month summation.
- d) **Monitoring and/or Recordkeeping Requirements**
- (1) For each shipment of oil received for burning in this emissions unit, the permittee shall maintain records of the total quantity of the diesel oil received and the oil supplier's (or permittee's) analyses for sulfur content, in parts per million (40 CFR 80.510) or percent by weight. The permittee shall perform or require the supplier to perform the analyses for sulfur content and heat content in accordance with 40 CFR 80.580, using the appropriate ASTM methods. These records shall be retained for a minimum of 5 years and shall be available for inspection by the Director or his/her representative.
 - (2) The permittee shall maintain the manufacturer's certification, to the applicable Tier 2 emission standards in Table 1 of 40 CFR 89.112, on site or at a central location for all facility ICE and it shall be made available for review upon request. If the manufacturer's certification is not kept on site, the permittee shall maintain a log for the location of each ICE and it shall identify the agency-assigned emissions unit number, the manufacturer's identification number, and the identification number of the certificate. The manufacturer's operations manual and any written instructions or procedures developed by the permittee and approved by the manufacturer shall be maintained at the same location as the ICE.

- (3) The permittee shall maintain records or a log for the operation of the engine in emergency and non-emergency service, as recorded through the non-resettable hour meter. The permittee shall keep the following information for the emergency CI stationary ICE:
 - a. the number of hours the engine is in operation, recorded through the non-resettable hour meter.
 - b. the number of hours spent in emergency operation;
 - c. the number of hours spent in non-emergency operation
 - d. the number of hours in maintenance checks and readiness testing; and
 - e. what classified the operation as an emergency.
- (4) If the engine is used for emergency response demand, for periods of deviation of voltage or frequency, or as part of a financial arrangement with another entity, as specified in 40 CFR 60.4211(f)(2)(ii) or (iii) or 40 CFR 60.4211(f)(3), the permittee must keep records of:
 - a. the notification of the emergency situation;
 - b. the date(s) of each emergency situation; and
 - c. the start time and end time of engine operation for these purposes.
- (5) The permittee shall maintain monthly records of the following information for each emissions unit:
 - a. the total number of hours of operation;
 - b. during the first 12 months of operation following the issuance of this permit, the monthly cumulative operating hours;
 - c. beginning after the first 12 months of operation following the issuance of this permit, the rolling, 12-month summation of the monthly operating hours; and
 - d. the rolling, 12-month summation for NO_x emissions, in tons, calculated in accordance with the compliance method listed in f).
- (6) For each day during which the permittee burns a fuel other than diesel fuel, or burns diesel fuel containing greater than 0.0015 percent sulfur by weight, the permittee shall maintain a record of the type and quantity of fuel burned in this emissions unit.

e) Reporting Requirements

- (1) All applications, notifications or reports required by terms and conditions in this permit to be submitted or "reported in writing" are to be submitted to Ohio EPA through the Ohio EPA's eBusiness Center: Air Services web service ("Air Services"). Ohio EPA will accept hard copy submittals on an as-needed basis if the permittee cannot submit the required documents through the Ohio EPA eBusiness Center. In the event of an alternative hard

copy submission in lieu of the eBusiness Center, the post-marked date or the date the document is delivered in person will be recognized as the date submitted. Electronic submission of applications, notifications, or reports required to be submitted to Ohio EPA fulfills the requirement to submit the required information to the Director, the District Office or Local Air Agency, and/or any other individual or organization specifically identified as an additional recipient identified in this permit unless otherwise specified. Consistent with OAC rule 3745-15-03, the required application, notification or report is considered to be "submitted" on the date the submission is successful using a valid electronic signature. Signature by the signatory authority may be represented as provided through procedures established in Air Services.

- (2) The permittee shall submit an annual Permit Evaluation Report (PER) to the Ohio EPA. The PER must be submitted by the due date identified in the Authorization section of this permit. The permit evaluation report shall cover a reporting period of no more than twelve months for each air contaminant source identified in this permit.
- (3) The permittee shall identify in the annual permit evaluation report any period of time (date and number of hours) that the quality of oil burned in this emissions unit did not meet the requirements established in 40 CFR 80.510(b), based upon the required fuel records; and the amount of non-compliant fuel burned on each such occasion.
- (4) Unless otherwise approved for additional hours, the permittee shall identify in the Permit Evaluation Report any exceedance of the annual 100 hour (or otherwise approved) limitation on maintenance checks and readiness testing, as documented by the non-resettable hour meter and operations log.
- (5) The permittee shall submit, in the PER or in an annual report, the information identified in 40 CFR 60.4214(d) for each emergency stationary ICE with a site rating of more than 100 brake HP that is employed for one of the following purposes:
 - a. operates or is contractually obligated to have the engine(s) available for more than 15 hours per calendar year for emergency demand response or to supply power during periods where there is a deviation of voltage or frequency of 5% or more below the standard voltage or frequency; or
 - b. operates the engine(s) in non-emergency situations as identified in 40 CFR 60.4211(f)(3), including the supply of power as part of a financial agreement with another entity, where these conditions can be met.
- (6) The annual report required by 40 CFR 60.4214(d) identified in (5) above must contain the following information:
 - a. the company name and address where the engine is located;
 - b. the date of the report and beginning and ending dates of the reporting period;
 - c. the engine horse power and model year;
 - d. the latitude and longitude of the engine in decimal degrees reported to the fifth decimal place;

- e. the number of hours of operation in emergency and non-emergency service, including the time of operations for maintenance checks and readiness testing, as recorded by the non-resettable hour meter;
- f. the hours of operation for the purposes of emergency demand response, including the date, start time, and end time;
- g. the hours of operation for the purposes of supplying power during periods where there was a deviation of voltage or frequency of 5% or greater below standard voltage or frequency, including the date, start time, and end time;
- h. the number of hours the engine is contractually obligated to be available for the purposes of emergency demand response or deviations from normal voltage or frequency, as specified in 40 CFR 60.4211(f)(2)(ii) and (iii);
- i. the hours of operation in non-emergency situations and used to supply power as part of a financial arrangement with another entity, in accordance with 40 CFR 60.4211(f)(3)(i), including the date, start time, and end time;
- j. the entity that dispatched the engine and the situation that necessitated the dispatch of the engine; and
- k. any deviation from the requirements to operate for the purpose of emergency demand response or as part of a financial arrangement with another entity, in accordance with 40 CFR 60.4211(f)(2)(ii) or (f)(3)(i).

The first annual report must cover the calendar year 2015 and must be submitted no later than March 31, 2016. Subsequent annual reports for each calendar year must be submitted no later than March 31 of the following calendar year.

- (7) In addition to submitting the annual report to the appropriate Ohio district office or local air agency or electronically as an attachment to the PER, the annual report must also be submitted electronically using the subpart specific reporting form in the Compliance and Emissions Data Reporting Interface (CEDRI) that is accessed through EPA's Central Data Exchange (CDX) (www.epa.gov/cdx). However, if the reporting form specific to this subpart is not available in CEDRI at the time that the report is due, the written report must be submitted to the Administrator at the appropriate address listed in 40 CFR 60.4.
- (8) The permittee shall submit quarterly deviation (excursion) reports that identify:
 - a. all deviations (excursions) of the following emission limitations, operational restrictions and/or control device operating parameter limitations that restrict the potential to emit (PTE) of any regulated air pollutant and have been detected by the monitoring, record keeping and/or testing requirements in this permit:
 - i. the rolling, 12-month operating hours restriction; and
 - ii. the rolling, 12-month NO_x emission limitation, in tons.

- b. the probable cause of each deviation (excursion);
- c. any corrective actions that were taken to remedy the deviations (excursions) or prevent future deviations (excursions); and
- d. the magnitude and duration of each deviation (excursion).

If no deviations (excursions) occurred during a calendar quarter, the permittee shall submit a report that states that no deviations (excursions) occurred during the quarter.

The quarterly reports shall be submitted each year by January 31 (covering October to December), April 30 (covering January to March), July 31 (covering April to June), and October 31 (covering July to September), unless an alternative schedule has been established and approved by the Director (the appropriate District Office or local air agency).

f) Testing Requirements

- (1) Compliance with the Emissions Limitations and/or Control Requirements specified in section b) of these terms and conditions shall be determined in accordance with the following methods:

- a. Opacity Limitation:

20% opacity during the acceleration mode

15% opacity during the lugging mode

50% opacity during the peaks in either the acceleration or lugging modes

Applicable Compliance Method:

The ICE shall be purchased certified to the opacity standards of 40 CFR 89.113.

- b. Opacity Limitation:

Visible particulate emissions from the exhaust stack serving this emissions unit shall not exceed 20 %opacity, as a six-minute average, except as specified by rule.

Applicable Compliance Method:

If required, compliance shall be determined through visible emission observations performed in accordance with U.S. EPA Reference Method 9 in 40 CFR, Part 60, Appendix A.



c. Emission Limitations:

0.20 gram PM/kW-hr

Applicable Compliance Method:

Compliance with the emission limitations shall be based on the manufacturer's certification and by maintaining the engine according to the manufacturer's specifications. The g/kW-hr limit is the emission limitation from Table 1 of 40 CFR 89.112, the Tier 2 exhaust emission standards for diesel engines greater than 750 horsepower (560 kW) and less than or equal to 3,000 horsepower (2,237 kW).

If required, the permittee shall demonstrate compliance with the emission limitations through performance tests conducted in accordance with the provisions in term f)(2) below.

d. Emission Limitations:

6.4 grams NO_x + NMHC/kW-hr

Applicable Compliance Method:

Compliance with the emission limitations shall be based on the manufacturer's certification and by maintaining the engine according to the manufacturer's specifications. The g/kW-hr limit is the emission limitation from Table 1 of 40 CFR 89.112, the Tier 2 exhaust emission standards for diesel engines greater than 750 horsepower (560 kW) and less than or equal to 3,000 horsepower (2,237 kW).

For the purpose of reporting emissions, where the limit is for NO_x + NMHC, the NO_x and VOC limits shall be calculated using a ratio of 79.4% NO_x to 20.6% VOC.*

$$6.4 \text{ g NO}_x + \text{NMHC/kW-hr} \times 79.4\% \text{ NO}_x^* = 5.1 \text{ grams NO}_x/\text{kW-hr}$$

*This ratio is based upon the linear relationship of NO_x to NMHC from Table 1 of Subpart IIII, Table 1 from 40 CFR 89.112, to Tables 4, 5, and 6 from 1039.102

If required, the permittee shall demonstrate compliance with the emission limitations through performance tests conducted in accordance with the provisions in term f)(2) below.



e. Emission Limitations:

3.5 grams CO/kW-hr

Applicable Compliance Method:

Compliance with the emission limitations shall be based on the manufacturer's certification and by maintaining the engine according to the manufacturer's specifications. The g/kW-hr limit is the emission limitation from Table 1 of 40 CFR 89.112, the Tier 2 exhaust emission standards for diesel engines greater than 750 horsepower (560 kW) and less than or equal to 3,000 horsepower (2,237 kW).

If required, the permittee shall demonstrate compliance with the emission limitations through performance tests conducted in accordance with the provisions in term f)(2) below.

f. Sulfur Content Limitations for Diesel Fuel:

Sulfur content 15 ppm or \leq 0.0015% by weight sulfur

Applicable Compliance Method:

Compliance shall be demonstrated through the record keeping requirements for the sulfur content of each shipment of diesel oil received. If meeting the standards in 40 CFR 80.510(b), this calculates to approximately 0.0015 lb SO₂/MMBtu.

g. Emission Limitation:

The NO_x emissions from each emissions unit shall not exceed the following:

B024: 3.89 tons NO_x based upon a rolling, 12-month summation

B025: 3.89 tons NO_x based upon a rolling, 12-month summation

B026: 2.19 tons NO_x based upon a rolling, 12-month summation

B027: 3.89 tons NO_x based upon a rolling, 12-month summation

Applicable Compliance Method:

The 12-month emissions limitation for each emissions unit was determined by multiplying the maximum heat input rate of the engine by the emissions factor of 3.2 lb/mmBtu from Table 3.4-1 (October 1996) of U.S. EPA 's AP-42, Compilation of Air Pollutant Emission Factors, Fifth Edition, multiplied by 250 hours/year and divided by 2000 lbs/ton.

Compliance shall be based up recordkeeping requirements specified in d) of this permit.

(2) If it is determined by the Ohio EPA that a compliance demonstration is required through performance testing, it shall be conducted using one of the following test methods or procedures:

- a. in accordance with 40 CFR 60.4212, conduct the exhaust emissions testing using the in-use testing procedures found in 40 CFR Part 1039, Subpart F, measuring the emissions of the regulated pollutants as specified in 40 CFR 1065; or
- b. in accordance with 40 CFR 60.4213, conduct exhaust emissions testing using the test methods identified in Table 7 to Subpart IIII of Part 60.

If demonstrating compliance through the in-use testing procedures in 40 CFR part 1039, subpart F, exhaust emissions from the pre-2007 model year stationary CI ICE shall not exceed the “not to exceed” (NTE) numerical requirements, rounded to the same number of decimal places as the applicable standard in 40 CFR 89.112, determined from the following equation:

$$\text{NTE requirement for each pollutant} = 1.25 \times \text{STD}$$

Where:

STD = The standard specified for the pollutant in 40 CFR 89.112.

g) Miscellaneous Requirements

(1) None.