



Mike DeWine, Governor
Jon Husted, Lt. Governor
Anne M. Vogel, Director

11/29/2023

Ryan Wehmann
QTS New Albany I, LLC
1225 Beech Rd SW
New Albany, OH 43054

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

Facility ID: 0145000602
Permit Number: P0134868
Permit Type: Initial Installation
County: Licking

Certified Mail

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

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, The Newark Advocate. A copy of the public notice and the draft permit are enclosed. This permit can be accessed electronically on the Ohio EPA document search webpage: <https://epa.ohio.gov/help-center/edocument-search/edocument-search>. 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 Ohio EPA DAPC, Central District Office
50 West Town St., 5th Floor
P.O. Box 1049
Columbus, OH 43216-1049

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 Ohio EPA DAPC, Central District Office at (614)728-3778.

Sincerely,

Robert Hodanbosi
Chief, Division of Air Pollution Control

cc: U.S. EPA Region 5 *Via E-Mail Notification*
Ohio EPA-CDO

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: <https://epa.ohio.gov/actions> 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
QTS New Albany I, LLC
1225 Beech Rd SW
New Albany, OH 43054

ID#: P0134868
Date of Action: 11/29/2023
Permit Desc: Initial permit for 102 emergency generators burning ultra-low sulfur diesel with federally enforceable limitations to stay below major source thresholds

The permit and complete instructions for requesting information or submitting comments may be obtained at: <https://epa.ohio.gov/help-center/edocument-search/edocument-search> by entering the permit # or by contacting: Pamela McCoy, Ohio EPA DAPC, Central District Office, 50 West Town St., 5th Floor P.O. Box 1049, Columbus, OH 43216-1049. Ph: (614)728-3778

Permit Strategy Write-Up

1. Check all that apply:

☒ Synthetic Minor Determination

☐ Netting Determination

2. Source Description:

QTS New Albany I, LLC (QTS) submitted an application to install and operate 102 stationary emergency generators (emissions units P001 through P102) at a new data center that will be located in New Albany, Ohio. QTS is requesting the flexibility to install 2,500 kWe (3,634 bhp) CAT Model 3516C emergency generators and/or 2,250 kWe (3,353 bhp) MTU Model 164000G84S emergency generators. The emergency generators will burn only ultra-low sulfur diesel (ULSD) that will be stored in tanks that qualify for the “de minimis” exemption in OAC rule 3745-15-05.

3. Facility Emissions and Attainment Status:

QTS will be located in Licking County which is in full attainment for all NAAQS.

The unrestricted potential-to-emit for the 102 emergency generators is provided below in Table 1. The potential-to-emit (PTE) was calculated assuming each emergency generator operates 500 hours per year. The emissions of each pollutant were calculated using the emissions data for the type of engine that results in the most emissions of that pollutant. The unrestricted PTE for NO_x, SO₂, and total HAPs were calculated assuming all 102 emergency generators will be CAT Model 3516C. The unrestricted PTE for CO, VOC, and PM₁₀/PM_{2.5} were calculated assuming all 102 emergency generators will be MTU Model 164000G84S. Depending on which type of emergency generators are installed, the actual PTE may be smaller than the Table 1 values.

Table 1: Unrestricted potential-to-emit (ton/yr)

Emissions Units	NO _x	CO	VOC	PM ₁₀ /PM _{2.5}	SO ₂	Total HAPs
P001 through P102	1,290	239	56.1	23.3	0.9	0.9

QTS is requesting federally enforceable limitations to avoid classification as a major source under Title V and New Source Review (NSR). The emergency generators will be limited to 73.0 tons of NO_x and 42.2 tons of CO per rolling, 12-month period by restricting the usage of ULSD. The appropriate operational, monitoring, recordkeeping, reporting, and testing requirements have been established in order to demonstrate the applicable Title V and NSR thresholds are not exceeded.

The facility’s potential NO₂ emissions exceed the Ohio modeling significant emissions rate listed in Table 3 of Engineering Guide #69. QTS performed emissions modeling using AERMOD and demonstrated that the proposed facility will not exceed the generally acceptable incremental impact for the annual NO₂ standard when limiting NO_x emissions from the emergency generators to no more than 73.0 tons per rolling, 12-month period.

4. Source Emissions:

Emissions units P001 through P102 are a source of NO_x, CO, VOC, PM, and SO₂ emissions from the combustion of ULSD. Because the particulate emissions from the emergency generators are due solely to the combustion of ULSD, the emissions units are considered inherently clean and no visible emissions monitoring is required.

Emissions units P001 through P102 are exempt from air toxics modeling pursuant to ORC 3704.03(F)(4)(f)(i) because they are "air contaminant sources that emit air contaminants solely from the combustion of fossil fuels." They are also exempt from the NO_x RACT requirements if they operate less than 500 hours per rolling, 12-month period in accordance with OAC rule 3745-110-03(K)(2).

The potential-to-emit for each pollutant from each emergency generator is less than 10 tons per year except for NO_x. Therefore, only the NO_x emissions from are subject to BAT. BAT has been established in accordance with Section 2 of Ohio EPA's February 7, 2014 BAT guidance. Emissions units P001 through P102 are subject to the area source MACT for stationary reciprocating internal combustion engines (40 CFR Part 63, Subpart ZZZZ). Pursuant to 40 CFR Part 63, Subpart ZZZZ, the emergency generators must meet the requirements of 40 CFR Part 60, Subpart IIII. 40 CFR Part 60, Subpart IIII establishes an emissions limitation NO_x. Therefore, BAT for NO_x has been established as the requirements of 40 CFR Part 60, Subpart IIII.

5. Conclusion:

The terms and conditions contained within P0134868 are sufficient to ensure compliance with all state and federal regulations and are consistent with current Division of Air Pollution Control policy and guidance.



DRAFT

**Division of Air Pollution Control
Permit-to-Install and Operate
for
QTS New Albany I, LLC**

Facility ID:	0145000602
Permit Number:	P0134868
Permit Type:	Initial Installation
Issued:	11/29/2023
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
QTS New Albany I, LLC

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Draft Permit-to-Install and Operate

QTS New Albany I, LLC

Permit Number: P0134868

Facility ID: 0145000602

Effective Date: To be entered upon final issuance

Authorization

Facility ID: 0145000602
Application Number(s): A0075056
Permit Number: P0134868
Permit Description: Initial permit for 102 emergency generators burning ultra-low sulfur diesel with federally enforceable limitations to stay below major source thresholds
Permit Type: Initial Installation
Permit Fee: \$2,550.00 *DO NOT send payment at this time, subject to change before final issuance*
Issue Date: 11/29/2023
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:

QTS New Albany I, LLC
1225 Beech Rd SW
New Albany, OH 43054

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:

Ohio EPA DAPC, Central District Office
50 West Town St., 5th Floor
P.O. Box 1049
Columbus, OH 43216-1049
(614)728-3778

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

Anne M. Vogel
Director

Authorization (continued)

Permit Number: P0134868

Permit Description: Initial permit for 102 emergency generators burning ultra-low sulfur diesel with federally enforceable limitations to stay below major source thresholds

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

Group Name: Emergency Generators

Emissions Unit ID:	P001
Company Equipment ID:	EmGen001
Superseded Permit Number:	
General Permit Category and Type:	Not Applicable
Emissions Unit ID:	P002
Company Equipment ID:	EmGen002
Superseded Permit Number:	
General Permit Category and Type:	Not Applicable
Emissions Unit ID:	P003
Company Equipment ID:	EmGen003
Superseded Permit Number:	
General Permit Category and Type:	Not Applicable
Emissions Unit ID:	P004
Company Equipment ID:	EmGen004
Superseded Permit Number:	
General Permit Category and Type:	Not Applicable
Emissions Unit ID:	P005
Company Equipment ID:	EmGen005
Superseded Permit Number:	
General Permit Category and Type:	Not Applicable
Emissions Unit ID:	P006
Company Equipment ID:	EmGen006
Superseded Permit Number:	
General Permit Category and Type:	Not Applicable
Emissions Unit ID:	P007
Company Equipment ID:	EmGen007
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General Permit Category and Type:	Not Applicable
Emissions Unit ID:	P008
Company Equipment ID:	EmGen008
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General Permit Category and Type:	Not Applicable
Emissions Unit ID:	P009
Company Equipment ID:	EmGen009
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General Permit Category and Type:	Not Applicable
Emissions Unit ID:	P010
Company Equipment ID:	EmGen010
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General Permit Category and Type:	Not Applicable
Emissions Unit ID:	P011
Company Equipment ID:	EmGen011
Superseded Permit Number:	
General Permit Category and Type:	Not Applicable

Emissions Unit ID:	P012
Company Equipment ID:	EmGen012
Superseded Permit Number:	
General Permit Category and Type:	Not Applicable
Emissions Unit ID:	P013
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General Permit Category and Type:	Not Applicable
Emissions Unit ID:	P014
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General Permit Category and Type:	Not Applicable

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Emissions Unit ID:	P100
Company Equipment ID:	EmGen100
Superseded Permit Number:	
General Permit Category and Type:	Not Applicable
Emissions Unit ID:	P101
Company Equipment ID:	EmGen101
Superseded Permit Number:	
General Permit Category and Type:	Not Applicable
Emissions Unit ID:	P102
Company Equipment ID:	EmGen102
Superseded Permit Number:	
General Permit Category and Type:	Not Applicable

List of Commonly Used Abbreviations

AP-42 = U.S. EPA's Compilation of Air Pollution Emissions Factors	IBR = Incorporation by Reference	PER = Permit Evaluation Report
ASTM = American Society for Testing and Materials	ID = Identification Number (typically referring to a facility ten-digit ID number)	PM = particulate matter
BACT = Best Available Control Technology	LAER = Lowest Achievable Emission Rate	PM ₁₀ = particulate matter with an aerodynamic diameter less than or equal to 10 microns
BAT = Best Available Technology	lb(s)/hr = pound(s) per hour	PM _{2.5} = particulate matter with an aerodynamic diameter less than or equal to 2.5 microns
CAA = Clean Air Act (1955, 70, 77, 80)	LDAR = Leak Detection and Repair	ppb = parts per billion
CAAA = Clean Air Act Amendments (1990)	LPG = liquefied petroleum gas/propane	ppm = parts per million
CAM = Compliance Assurance Monitoring	MACT = Maximum Achievable Control Technology	PSD = Prevention of Significant Deterioration
CEM = Continuous Emissions Monitor	MAGLC = Maximum Acceptable Ground Level Concentration	psi = pounds per square inch
CEMS = Continuous Emissions Monitoring System	mg/m ³ = milligrams per cubic meter	psia = pounds per square inch absolute
CFC = chlorofluorocarbon	MM = million	PTE = Potential-to-Emit
CFR = Code of Federal Regulations	MMBtu = million British Thermal Units	PTI = Permit-to-Install
CH ₄ = methane	MON = Miscellaneous Organic Chemical Manufacturing NESHAP	PTIO = Permit-to-Install and Operate
CI = compression ignition	MSDS = Material Safety Data Sheet	PTO = Permit-to-Operate
CO = carbon monoxide	MSW = Municipal Solid Waste	PWR = process weight rate
CO ₂ = carbon dioxide		RACM = Reasonably Available Control Measures
COM = Continuous Opacity Monitor	NAAQS = National Ambient Air Quality Standard	RACT = Reasonably Available Control Technology
DAPC = Division of Air Pollution Control	NESHAP = National Emission Standard for Hazardous Air Pollutants	RATA = Relative Accuracy Test Audit
DO/LAA = District Office/Local Air Agency	NG = natural gas	RTO = regenerative thermal oxidizer
dscf = dry standard cubic foot	ng/m ³ = nanograms per cubic meter	SB265 = Senate Bill 265
EAC = Emissions Activity Category	NH ₃ = ammonia	scfm = standard cubic feet per minute
eDocs = Electronic Documents Database	NMHC = non-methane hydrocarbons	SI = spark ignition
ERAC = Environmental Review Appeals Commission	NMOC = non-methane organic compound	SIP = State Implementation Plan
ESP = electrostatic precipitator	NNSR = Nonattainment New Source Review	SM = Synthetic Minor
EU = Emissions Unit	NO = nitrogen oxide	SO ₂ = sulfur dioxide
FEPTIO = Federally Enforceable Permit-to-Install and Operate	NO ₂ = nitrogen dioxide	SOB = Statement of Basis
FER = Fee Emissions Report	NO _x = nitrogen oxides	SSMP = Startup, Shutdown and Malfunction Plan
FR = Federal Register	NSPS = New Source Performance Standard	T & C = Term and Condition
GACT = Generally Achievable Control Technology	NSR = New Source Review	TDS = total dissolved solids
GHG = greenhouse gases	NTV = Non-Title V	TLV = Threshold Limit Value
gr = grains	O&M = Operation and Maintenance	TO = thermal oxidizer
gr/dscf = grains per dry standard cubic foot	O ₃ = ozone	TPH = ton(s) per hour
H ₂ S = hydrogen sulfide	OAC = Ohio Administrative Code	TPY = ton(s) per year
H ₂ SO ₄ = sulfuric acid	OC = organic compound	TSP = total suspended particulates
HAP = hazardous air pollutant	OEPA = Ohio Environmental Protection Agency	VE = visible emissions
HCl = hydrochloride	ORC = Ohio Revised Code	VMT = vehicle miles traveled
HF = hydrogen fluoride	Pb = lead	VOC = volatile organic compound
Hg = mercury	PBR = Permit-By-Rule	WPP = Work Practice Plan
HON = Synthetic Organic Chemical Manufacturing NESHAP	PCB = polychlorinated biphenyl	µg/m ³ = micrograms per cubic meter
hp = horsepower	PE = particulate emissions	
HVLP = high volume, low pressure	PEMS = Predictive Emissions Monitoring System	



Draft Permit-to-Install and Operate

QTS New Albany I, LLC

Permit Number: P0134868

Facility ID: 0145000602

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 (either electronically through Ohio

EPA's eBusiness Center: Air Services web service or 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 once by 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 permit evaluation report (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 Ohio EPA DAPC, Central District Office 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/her 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 shut down 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, the new owner or operator must follow the procedures in OAC Chapter 3745-31-07, including notifying Ohio EPA or the local air agency of the change in ownership or operator within thirty days of the transfer date. Any transferee of this permit shall 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.

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) None.
2. All applications, notifications or reports required in writing are to be submitted through Ohio EPA's eBusiness Center: Air Services online web portal. Hardcopy submissions will be accepted on an as-needed basis if the permittee cannot submit the required documents through Air Services. In the event of a hardcopy submission, the post-marked date or the date the document is delivered in person will be recognized as the date submitted. Electronic submittal of applications, notifications or reports to Ohio EPA fulfills the requirement to submit information to the director, the DO/LAA, and/or any other individual or organization identified as a recipient unless otherwise specified in this permit. Consistent with OAC rule 3745-15-03, the application, notification or report is considered submitted on the date the submittal is successful using a valid electronic signature. Signature by the signatory authority may be represented as provided through procedures established in Air Services.
3. The Ohio EPA has determined that this facility operates affected sources that are subject to the requirements of 40 CFR Part 63, Subpart ZZZZ, the National Emission Standards for Hazardous Air Pollutants (NESHAP) for Stationary Reciprocating Internal Combustion Engines. Ohio EPA is not accepting the delegation authority to implement and enforce the area source requirements of this NESHAP standard. The area source requirements of this NESHAP standard are implemented and enforced by U.S. EPA, Region 5. The promulgated version of this NESHAP standard and the 40 CFR 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 Ohio EPA, Central District Office.

C. Emissions Unit Terms and Conditions

1. Emissions Unit Group - 2,500 kWe (3,634 bhp) or 2,250 kWe (3,353 bhp) Diesel-Fired Emergency Generators: P001 through P102

EU ID	Company Equipment ID
P001	EmGen001
P002	EmGen002
P003	EmGen003
P004	EmGen004
P005	EmGen005
P006	EmGen006
P007	EmGen007
P008	EmGen008
P009	EmGen009
P010	EmGen010
P011	EmGen011
P012	EmGen012
P013	EmGen013
P014	EmGen014
P015	EmGen015
P016	EmGen016
P017	EmGen017
P018	EmGen018
P019	EmGen019
P020	EmGen020
P021	EmGen021
P022	EmGen022
P023	EmGen023
P024	EmGen024
P025	EmGen025
P026	EmGen026
P027	EmGen027
P028	EmGen028
P029	EmGen029
P030	EmGen030
P031	EmGen031
P032	EmGen032
P033	EmGen033
P034	EmGen034
P035	EmGen035
P036	EmGen036
P037	EmGen037
P038	EmGen038
P039	EmGen039
P040	EmGen040
P041	EmGen041
P042	EmGen042
P043	EmGen043

EU ID	Company Equipment ID
P052	EmGen052
P053	EmGen053
P054	EmGen054
P055	EmGen055
P056	EmGen056
P057	EmGen057
P058	EmGen058
P059	EmGen059
P060	EmGen060
P061	EmGen061
P062	EmGen062
P063	EmGen063
P064	EmGen064
P065	EmGen065
P066	EmGen066
P067	EmGen067
P068	EmGen068
P069	EmGen069
P070	EmGen070
P071	EmGen071
P072	EmGen072
P073	EmGen073
P074	EmGen074
P075	EmGen075
P076	EmGen076
P077	EmGen077
P078	EmGen078
P079	EmGen079
P080	EmGen080
P081	EmGen081
P082	EmGen082
P083	EmGen083
P084	EmGen084
P085	EmGen085
P086	EmGen086
P087	EmGen087
P088	EmGen088
P089	EmGen089
P090	EmGen090
P091	EmGen091
P092	EmGen092
P093	EmGen093
P094	EmGen094

EU ID	Company Equipment ID
P044	EmGen044
P045	EmGen045
P046	EmGen046
P047	EmGen047
P048	EmGen048
P049	EmGen049
P050	EmGen050
P051	EmGen051

EU ID	Company Equipment ID
P095	EmGen095
P096	EmGen096
P097	EmGen097
P098	EmGen098
P099	EmGen099
P100	EmGen100
P101	EmGen101
P102	EmGen102

- 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. See b)(1)f., c)(2), d)(6), e)(3), and f)(1)d. below.

- 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.	OAC rule 3745-17-07(A)	Visible particulate emissions from the stack serving this emissions unit shall not exceed 20% opacity as a 6-minute average, except as provided by rule.
b.	OAC rule 3745-17-11(B)(5)(b)	Particulate emissions from the engine's exhaust shall not exceed 0.062 lb/MMBtu actual heat input.
c.	OAC rule 3745-18-06(G)	SO ₂ emissions shall not exceed 0.5 lb/MMBtu actual heat input.
d.	OAC rule 3745-31-05(A)(3) [BAT for NO _x]	The emissions unit shall meet the standards established for NO _x emissions in 40 CFR Part 60, Subpart IIII.

	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
		See b)(1)h. and b)(2)a. through b)(2)c. below.
e.	OAC rule 3745-31-05(A)(3)(a)(ii)	The BAT requirements under OAC rule 3745-31-05(A)(3) do not apply to the CO, VOC, PM ₁₀ , PM _{2.5} and SO ₂ emissions from this air contaminant source since the potentials to emit are less than 10 tons per year.
f.	OAC rule 3745-31-05(D) [Federally enforceable limitations to avoid Title V and NSR]	NO _x emissions from emissions units P001 through P102, combined, shall not exceed 73.0 tons per rolling, 12-month period. CO emissions from emissions units P001 through P102, combined, shall not exceed 42.2 tons per rolling, 12-month period.
g.	OAC rule 3745-110-03	See b)(2)e. below.
h.	40 CFR Part 60, Subpart IIII 40 CFR 60.4202(b)(2) 40 CFR 60.4205(b) 40 CFR 60.4207(b) 40 CFR Part 1039, Appendix I, Tier 2 40 CFR 1039.105	The emissions unit shall be certified to meet the following emissions standards: 0.20 grams PM/kW-hr; 6.4 grams NO _x + NMHC/kW-hr; 3.5 grams CO/kW-hr; 20 percent opacity during the acceleration mode; 15 percent opacity during the lugging mode; and 50 percent opacity during the peaks in either the acceleration or lugging modes. See b)(2)a. through b)(2)d. below.
i.	40 CFR Part 60, Subpart A	Table 8 to 40 CFR Part 60, Subpart IIII- "Applicability of General Provisions to Subpart IIII" identifies which parts of the General Provisions in 40 CFR Part 60.1-19 apply.

(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(b)(2), including the Tier 2 standards in 40 CFR 1039, Appendix I for engines greater than or equal to 750 horsepower (560 kilowatt) and the smoke standards as specified in 40 CFR 1039.105.

- c. The emergency stationary ICE must comply with the applicable requirements specified in 40 CFR 60.4211(f) in order to be considered an emergency stationary ICE under Part 60, Subpart IIII.
- d. The emergency stationary CI ICE shall burn only ultra-low sulfur diesel (ULSD) that meets the following per-gallon standards:
 - i. A maximum sulfur content of 15 ppm (0.0015% sulfur by weight); and
 - ii. A cetane index or aromatic contents, as follows:
 - (a) A minimum cetane index of 40; or
 - (b) A maximum aromatic content of 35 volume percent.
- e. The emergency stationary CI ICE shall not be operated in any consecutive 12-month period to equal or exceed 500 hours of operation. If the engine operation equals or exceeds 500 hours during any consecutive 12-month period, the NO_x emissions shall not exceed 3.0 g/hp-hr; and the permittee shall demonstrate compliance in accordance with OAC 3745-110-05.

c) Operational Restrictions

- (1) The emergency stationary CI ICE 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 60, Subpart IIII; 40 CFR Part 1039, Control of Emissions from New and In-use Nonroad CI Engines; and 40 CFR Part 1068, the General Compliance Provisions for Highway, Stationary, and Nonroad 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) The maximum ULSD fuel usage for emissions units P001 through P102 shall be limited by the following formulas for each rolling, 12-month period:

$$73.0 \text{ tons of NO}_x \geq \sum_{i=P001}^{P102} \frac{EF_{\text{NO}_x,i} Q_i}{2,000 \frac{\text{lb}}{\text{ton}}}$$

and

$$42.2 \text{ tons of CO} \geq \sum_{i=P001}^{P102} \frac{EF_{\text{CO},i} Q_i}{2,000 \frac{\text{lb}}{\text{ton}}}$$

where:

i = each emissions unit, P001 through P102

$EF_{NO_x,i}$ = the NO_x emissions factor, in lb/gal, for each emissions unit, i , based on the manufacturer's technical specifications. The NO_x emissions factors for emissions units P001 through P102 are provided in Table 1 below.

Table 1: NO_x Emissions Factors for P001 through P102

Manufacturer and Model	Emissions Factor (lb/gal)
CAT Model 3516C	0.295
MTU Model 16V4000G84S	0.29

$EF_{CO,i}$ = the CO emissions factor, in lb/gal, for each emissions unit, i , based on the manufacturer's technical specifications. The CO emissions factors for emissions units P001 through P102 are provided in Table 2 below.

Table 2: CO Emissions Factors for P001 through P102

Manufacturer and Model	Emissions Factor (lb/gal)
CAT Model 3516C	0.0577
MTU Model 16V4000G84S	0.076

Q_i = the number of gallons of ULSD fuel used by each emissions unit, i , during the rolling, 12-month period

d) **Monitoring and/or Recordkeeping Requirements**

- (1) The permittee shall maintain the manufacturer's certification, to the applicable Tier 2 emission standards in 40 CFR 1039, Appendix I, 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.
- (2) The permittee shall maintain documents provided by the oil supplier for each shipment of fuel oil to demonstrate compliance with the ULSD requirement. These documents must include the receipt or bill of lading that includes confirmation that the fuel meets the ULSD standard.
- (3) For each day during which the permittee burns a fuel other than ULSD, the permittee shall maintain a record of the type, percent sulfur content, and quantity of fuel burned in this emissions unit.
- (4) The emergency stationary CI ICE shall be installed with a non-resettable hour meter prior to startup of the engine.
- (5) The permittee shall maintain monthly records of the following information:

- a. the total number of hours the engine was in operation;
 - b. the number of hours spent in emergency operation;
 - c. what classified the operation as an emergency;
 - d. the number of hours spent in non-emergency operation;
 - e. the number of hours in maintenance checks and readiness testing; and
 - f. the rolling, 12-month summation of the number of hours the engine was in operation.
- (6) The permittee shall maintain monthly records of the following information:
- a. the number of gallons of ULSD fuel used by each emissions unit for P001 through P102;
 - b. the NO_x emissions from emissions units P001 through P102, combined, in pounds or tons;
 - c. the CO emissions from emissions units P001 through P102, combined, in pounds or tons;
 - d. the rolling, 12-month summation of NO_x emissions from emissions units P001 through P102, combined, in tons; and
 - e. the rolling, 12-month summation of CO emissions from emissions units P001 through P102, combined, in tons.

The NO_x and CO emissions from emissions units P001 through P102 shall be calculated using NO_x and CO emissions factors based on the manufacturer's technical specifications. The emissions factors that shall be used for emissions units P001 through P102 are specified in Tables 1 and 2 in c)(2) above.

e) **Reporting Requirements**

- (1) The permittee shall email Ohio EPA, Central District Office a revised EAC form that identifies the serial number for the emergency generator within 30 days after placement on its concrete pad.
- (2) The permittee shall submit an annual PER to Ohio EPA by the due date identified in the Authorization section of this permit. The PER shall cover a reporting period of no more than 12 months for each air contaminant source identified in this permit.
- (3) 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 PTE of any regulated air pollutant and have been detected by the monitoring, recordkeeping and/or testing requirements in this permit:

- i. all exceedances of the rolling, 12-month ULSD fuel usage limitation specified in c)(2) above;
- ii. all exceedances of the rolling, 12-month NO_x emissions limitation; and
- iii. all exceedances of the rolling, 12-month CO emissions limitation;
- 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 (Ohio EPA, Central District Office).

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. Emissions Limitation

Visible particulate emissions from the stack serving this emissions unit shall not exceed 20% opacity as a 6-minute average, except as specified by rule.

Applicable Compliance Method

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

b. Emissions Limitation

Particulate emissions from the engine's exhaust shall not exceed 0.062 lb/MMBtu actual heat input.

Applicable Compliance Method

Compliance shall be determined based on the manufacturer's technical data sheet specifying maximum PM emissions rates that are equal to or less than 0.09 g/kWh (0.07 g/hp-hr) at 100% load and 0.19 g/kWh (0.14 g/hp-hr) at 75% load for the MTU Model 16V4000G84S, and 0.07 g/kWh (0.05 g/hp-hr) at 100% load and 0.06 g/kWh (0.05 g/hp-hr) at 75% load for the CAT Model 3516C.

If required, the permittee shall demonstrate compliance with this emission limitation in accordance with the methods and procedures specified in OAC rule 3745-17-03(B)(10).

c. Emissions Limitation

SO₂ emissions shall not exceed 0.5 lb/MMBtu actual heat input.

Applicable Compliance Method

Compliance shall be determined using documents required in d)(2) above. Emissions of SO₂ shall be calculated in accordance with OAC rule 3745-18-04(F)(2) using the maximum fuel sulfur content of 15 ppm.

d. Emissions Limitations

NO_x emissions from emissions units P001 through P102, combined, shall not exceed 73.0 tons per rolling, 12-month period.

CO emissions from emissions units P001 through P102, combined, shall not exceed 42.2 tons per rolling, 12-month period.

Applicable Compliance Method

Compliance with these emissions limitations shall be determined in accordance with the recordkeeping specified in d)(6) above.

e. Emissions Limitations

The emissions unit shall be certified to meet the following emissions standards:
0.20 grams PM/kW-hr;
6.4 grams NO_x + NMHC/kW-hr; and
3.5 grams CO/kW-hr;
20 percent opacity during the acceleration mode;
15 percent opacity during the lugging mode; and
50 percent opacity during the peaks in either the acceleration or lugging modes.

Applicable Compliance Method

Compliance with the emissions limitations shall be based on the manufacturer's certification and by maintaining the engine according to the manufacturer's instructions.

g) Miscellaneous Requirements

(1) None.