



08/31/2026

Joseph Giannini
Aligned Data Centers - CMH01
505 Northwest Avenue
Northlake, IL 60164

RE: FINAL AIR POLLUTION PERMIT-TO-INSTALL

Facility ID: 0145000625
Permit Number: P0140511
Permit Type: Initial Installation
County: Licking

Dear Permit Holder:

No	TOXIC REVIEW
No	PSD
Yes	SYNTHETIC MINOR TO AVOID MAJOR NSR
No	CEMS
Yes	MACT/GACT
Yes	NSPS
No	NESHAPS
No	NETTING
No	MAJOR NON-ATTAINMENT
Yes	MODELING SUBMITTED
No	MAJOR GHG
	SYNTHETIC MINOR TO AVOID MAJOR

Enclosed please find a final Ohio Environmental Protection Agency (EPA) Air Pollution Permit-to-Install (PTI) which will allow you to install or modify the described emissions unit(s) in a manner indicated in the permit. Because this permit may contain several conditions and restrictions, we urge you to read it carefully. In this letter, you will find the information on the following topics:

- **Pay any applicable permit fee**
- **How to appeal this permit**
- **How to save money, reduce pollution and reduce energy consumption**
- **How to give us feedback on your permitting experience**
- **How to get an electronic copy of your permit**
- **What should you do if you notice a spill or environmental emergency?**

Pay any applicable permit fee

If there is an enclosed invoice that is associated with this permit action, you must pay the invoice in 30 days. This permit fee supports Ohio EPA's activities to review and issue the necessary approvals for construction or modification of the affected sources. Failure to provide the applicable permit fee within 30 days may result in the accrual of substantial interest penalties. This permit is also conditioned on the payment of any applicable permit fee.

How to appeal this permit

The issuance of this PTI is a final action of the Director and may be appealed to the Environmental Review Appeals Commission pursuant to Section 3745.04 of the Ohio Revised Code. The appeal must be in writing and set forth the action complained of and the grounds upon which the appeal is based. The appeal must be filed with the Commission within thirty (30) days after notice of the Director's action. The appeal must be accompanied by a filing fee of \$70.00, made payable to "Ohio Treasurer Robert Sprague," which the Commission, in its discretion, may reduce if by affidavit you demonstrate that payment of the full amount of the fee would cause extreme hardship. Notice of the filing of the appeal shall be filed with the Director within three (3) days of filing with the Commission. Ohio EPA requests that a copy of the appeal be served upon the Ohio Attorney General's Office, Environmental Enforcement Section. An appeal may be filed with the Environmental Review Appeals Commission at the following address:

Environmental Review Appeals Commission
30 East Broad Street, 4th Floor
Columbus, OH 43215

How to save money, reduce pollution and reduce energy consumption

The Ohio EPA is encouraging companies to investigate pollution prevention and energy conservation. Not only will this reduce pollution and energy consumption, but it can also save you money. If you would like to learn ways you can save money while protecting the environment, please contact the Small Business Environmental Assistance Program in our Compliance Assistance & Special Projects unit - [Contacts / Ohio Environmental Protection Agency](#). Additionally, all or a portion of the capital expenditures related to installing air pollution control equipment under this permit may be eligible for financing and state tax exemptions through the Ohio Air Quality Development Authority (OAQDA) under Ohio Revised Code Section 3706. For more information, see the OAQDA website: [Ohio Air Quality Development Authority / Ohio.gov](#)

How to give us feedback on your permitting experience

Please complete a survey at [DAPC - Customer Satisfaction Survey](#) and give us feedback on your permitting experience. We value your opinion.

How to get an electronic copy of your permit

This permit can be accessed electronically via the eBusiness Center: Air Services in Microsoft Word format or in Adobe PDF on the Ohio EPA document search webpage: [eDocument Search](#).

What should you do if you notice a spill or environmental emergency?

Any spill or environmental emergency which may endanger human health or the environment should be reported to the Emergency Response 24-HOUR EMERGENCY SPILL HOTLINE toll-free at (800) 282-9378. Report non-emergency complaints to the appropriate district office or local air agency.

If you have any questions regarding your permit, please contact at Ohio EPA DAPC, Central Office at (614) 644-2270

Sincerely,



Robert Hodanbosi
Chief, Division of Air Pollution Control

cc: U.S. EPA
Ohio EPA-CDO

Response to Comments

Facility ID:	0145000625
Facility Name:	Aligned Data Centers - CMH01
Facility Description:	Aligned Data Centers
Facility Address:	6770 Mink Street Pataskala, OH 43062 Licking County
Permit:	P0140511, Permit-To-Install - Initial Installation
A public notice for the draft permit issuance was published in the Ohio EPA Weekly Review on 07/30/2026. The comment period ended on 08/29/2026.	
Hearing Date (if held):	
Hearing Public Notice Date (if different from draft public notice):	

The following comments were received during the comment period specified. Ohio EPA reviewed and considered all comments received during the public comment period. By law, Ohio EPA has authority to consider specific issues related to protection of the environment and public health. Often, public concerns fall outside the scope of that authority. For example, concerns about zoning issues are addressed at the local level. Ohio EPA may respond to those concerns in this document by identifying another government agency with more direct authority over the issue.

In an effort to help you review this document, the questions are grouped by topic and organized in a consistent format. PDF copies of the original comments in the format submitted are available upon request.

1. Topic: Public Health

- a) Comment: I am against permitting additional emergency or backup generators at locations beginning at the Licking County boarder (west) near Beach Rd extending South to Morris Road and North to Johnstown Road and East to Mink Road due to the high concentration of emergency or backup generators already permitted in this area. I am concerned that in a major power failure, the health and safety of persons living in the community nearby will be effected by air pollutants and noise pollution. I have seen no studies done on such a high concentration of generators. I would like to know what the number of generators by type have already been permitted in this area.

There are already hundreds of permitted backup generators within a mile radius of this site. There are too many generators for the health and safety of nearby residents. No more generators should be permitted for this area.
- b) Response: Ohio EPA issues and enforces permits for installing and operating air pollution sources to ensure compliance with air quality standards that protect public health and the environment.



Permits are based on technical review and the best available science and are not issued if health-based standards would be exceeded.

Ohio EPA's air permitting process ensures that new sources of air pollution will not cause or contribute to exceedances of the National Ambient Air Quality Standards (NAAQS) that have been established for carbon monoxide, nitrogen oxides, lead, ozone, sulfur dioxide, and particulate matter. These standards are set by U.S. EPA to protect public health (including sensitive populations) and welfare (e.g., damage to property, economic values, personal comfort, etc.). Ohio is divided into regions (typically by county) where air quality is evaluated for compliance with the NAAQS. If a region meets the air quality standards (as shown by Ohio's air monitoring data), it is in attainment of the standard. The area surrounding Aligned Data Centers – CMH01's proposed location is in attainment for all NAAQS. Ohio EPA has evaluated the maximum expected emissions from this facility and has determined that they will not cause or contribute to a NAAQS exceedance. This same evaluation has been performed as part of the permitting process for all of the nearby data centers.

In addition to evaluating compliance with the NAAQS, Ohio EPA's permitting process evaluates toxic air contaminants to ensure new sources do not cause any significant adverse human health impacts. Air dispersion modeling is required when emissions exceed an established threshold, typically, one ton per year per pollutant. Ohio EPA has determined that when an air toxic compound is emitted at a level less than the established threshold, the toxic air contaminant emissions will not cause any significant adverse human health impacts. The permit contains the necessary monitoring and recordkeeping requirements to ensure that the toxic air contaminant emissions from this facility will remain below levels that will impact human health.

Currently, there are 2,443 diesel-fired emergency generators, 61 natural gas-fired reciprocating engines, 16 natural gas linear generators, and 30 natural gas-fired simple cycle turbines that are permitted in the New Albany area. These numbers include both primary and redundant power generating equipment. Redundant power generating equipment will only operate in the event that the primary generator is inoperable/unavailable. In some cases, facilities install a second layer of redundancy to ensure that they can operate when both the primary and backup sources of power are unavailable. This list also includes electric generating equipment located at facilities that are not connected to the electric grid. Due to the redundancy and off-grid facilities, we do not anticipate a scenario during which all permitted electric generators will operate simultaneously.

While we understand that noise is a concern at facilities, it is outside of Ohio EPA's permitting authority. Often, local municipalities have noise ordinances. For noise concerns or questions, please reach out to the city of Pataskala.

2. Topic: Against More Data Centers

- a) Comment: There are already more data centers in Ohio than most states in the entire country. Enough is enough! The people of Ohio don't want them!
- b) Response: While we appreciate community feedback, Ohio EPA must issue permits that comply with Ohio's environmental laws and regulations. The draft air permit does meet those requirements. We cannot deny a permit based on local popularity for the facility or business sector.



**Environmental
Protection
Agency**

FINAL
Division of Air Pollution Control
Permit-to-Install
for
Aligned Data Centers - CMH01

Facility ID: 0145000625
Permit Number: P0140511
Permit Type: Initial Installation
Issued: 08/31/2026
Effective: 08/31/2026

Division of Air Pollution Control

Permit-to-Install

for

Aligned Data Centers - CMH01

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Authorization

Facility ID:	0145000625
Facility Description:	Aligned Data Centers
Application Number(s):	A0081433
Permit Number:	P0140511
Permit Description:	Initial PTI for 129 emergency generators at a data center with federally enforceable limitations on the potential-to-emit to avoid major NSR
Permit Type:	Initial Installation
Permit Fee	\$4,773.00
Issue Date:	08/31/2026
Effective Date:	08/31/2026

This document constitutes issuance of a Permit-to-Install for the emissions unit(s) identified on the following page to:

Aligned Data Centers - CMH01
6770 Mink Street
Pataskala, OH 43062

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

Ohio EPA DAPC, Central Office
50 West Town St. Suite 700
P.O. Box 1049
Columbus, OH 43216-1049
(614) 644-2270

The above-named entity is hereby granted a Permit-to-Install for the 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 emissions unit(s) of environmental pollutants will operate in compliance with applicable State and Federal laws and regulations, and does not constitute expressed or implied assurance that if constructed or modified in accordance with those plans and specifications, the above described emissions unit(s) of pollutants will be granted the necessary permits to operate (air) or NPDES permits as applicable.

This permit is granted subject to the conditions attached hereto.

Ohio Environmental Protection Agency

Entered into the Journal of the Director on:



John Logue
Director

Date: 08/31/2026

Authorization (continued)

Permit Number: P0140511

Permit Description: Initial PTI for 129 emergency generators at a data center with federally enforceable limitations on the potential-to-emit to avoid major NSR

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

Group Name: 1,500 kWe Gensets

Emissions Unit ID:	P127
Company Equipment ID:	GEN H-1
Superseded Permit Number:	
General Permit Category and Type:	Not Applicable
Emissions Unit ID:	P128
Company Equipment ID:	GEN H-2
Superseded Permit Number:	
General Permit Category and Type:	Not Applicable
Emissions Unit ID:	P129
Company Equipment ID:	GEN H-3
Superseded Permit Number:	
General Permit Category and Type:	Not Applicable

Group Name: 3,000 kWe Gensets

Emissions Unit ID:	P001
Company Equipment ID:	GEN 1-1
Superseded Permit Number:	
General Permit Category and Type:	Not Applicable
Emissions Unit ID:	P002
Company Equipment ID:	GEN 1-2
Superseded Permit Number:	
General Permit Category and Type:	Not Applicable
Emissions Unit ID:	P003
Company Equipment ID:	GEN 1-3

Superseded Permit Number:	
General Permit Category and Type:	Not Applicable
Emissions Unit ID:	P004
Company Equipment ID:	GEN 1-4
Superseded Permit Number:	
General Permit Category and Type:	Not Applicable
Emissions Unit ID:	P005
Company Equipment ID:	GEN 1-5
Superseded Permit Number:	
General Permit Category and Type:	Not Applicable
Emissions Unit ID:	P006
Company Equipment ID:	GEN 1-6
Superseded Permit Number:	
General Permit Category and Type:	Not Applicable
Emissions Unit ID:	P007
Company Equipment ID:	GEN 1-7
Superseded Permit Number:	
General Permit Category and Type:	Not Applicable
Emissions Unit ID:	P008
Company Equipment ID:	GEN 1-8
Superseded Permit Number:	
General Permit Category and Type:	Not Applicable
Emissions Unit ID:	P009
Company Equipment ID:	GEN 1-9
Superseded Permit Number:	
General Permit Category and Type:	Not Applicable
Emissions Unit ID:	P010
Company Equipment ID:	GEN 1-10
Superseded Permit Number:	
General Permit Category and Type:	Not Applicable
Emissions Unit ID:	P011
Company Equipment ID:	GEN 1-11
Superseded Permit Number:	

General Permit Category and Type:	Not Applicable
Emissions Unit ID:	P012
Company Equipment ID:	GEN 1-12
Superseded Permit Number:	
General Permit Category and Type:	Not Applicable
Emissions Unit ID:	P013
Company Equipment ID:	GEN 1-13
Superseded Permit Number:	
General Permit Category and Type:	Not Applicable
Emissions Unit ID:	P014
Company Equipment ID:	GEN 1-14
Superseded Permit Number:	
General Permit Category and Type:	Not Applicable
Emissions Unit ID:	P015
Company Equipment ID:	GEN 1-15
Superseded Permit Number:	
General Permit Category and Type:	Not Applicable
Emissions Unit ID:	P016
Company Equipment ID:	GEN 1-16
Superseded Permit Number:	
General Permit Category and Type:	Not Applicable
Emissions Unit ID:	P017
Company Equipment ID:	GEN 1-17
Superseded Permit Number:	
General Permit Category and Type:	Not Applicable
Emissions Unit ID:	P018
Company Equipment ID:	GEN 1-18
Superseded Permit Number:	
General Permit Category and Type:	Not Applicable
Emissions Unit ID:	P019
Company Equipment ID:	GEN 1-19
Superseded Permit Number:	
General Permit Category and Type:	Not Applicable

Emissions Unit ID:	P020
Company Equipment ID:	GEN 1-20
Superseded Permit Number:	
General Permit Category and Type:	Not Applicable
Emissions Unit ID:	P021
Company Equipment ID:	GEN 1-21
Superseded Permit Number:	
General Permit Category and Type:	Not Applicable
Emissions Unit ID:	P022
Company Equipment ID:	GEN 1-22
Superseded Permit Number:	
General Permit Category and Type:	Not Applicable
Emissions Unit ID:	P023
Company Equipment ID:	GEN 1-23
Superseded Permit Number:	
General Permit Category and Type:	Not Applicable
Emissions Unit ID:	P024
Company Equipment ID:	GEN 1-24
Superseded Permit Number:	
General Permit Category and Type:	Not Applicable
Emissions Unit ID:	P025
Company Equipment ID:	GEN 1-25
Superseded Permit Number:	
General Permit Category and Type:	Not Applicable
Emissions Unit ID:	P026
Company Equipment ID:	GEN 1-26
Superseded Permit Number:	
General Permit Category and Type:	Not Applicable
Emissions Unit ID:	P027
Company Equipment ID:	GEN 1-27
Superseded Permit Number:	
General Permit Category and Type:	Not Applicable
Emissions Unit ID:	P028

Company Equipment ID:	GEN 1-28
Superseded Permit Number:	
General Permit Category and Type:	Not Applicable
Emissions Unit ID:	P029
Company Equipment ID:	GEN 1-29
Superseded Permit Number:	
General Permit Category and Type:	Not Applicable
Emissions Unit ID:	P030
Company Equipment ID:	GEN 1-30
Superseded Permit Number:	
General Permit Category and Type:	Not Applicable
Emissions Unit ID:	P031
Company Equipment ID:	GEN 1-31
Superseded Permit Number:	
General Permit Category and Type:	Not Applicable
Emissions Unit ID:	P032
Company Equipment ID:	GEN 1-32
Superseded Permit Number:	
General Permit Category and Type:	Not Applicable
Emissions Unit ID:	P033
Company Equipment ID:	GEN 1-33
Superseded Permit Number:	
General Permit Category and Type:	Not Applicable
Emissions Unit ID:	P034
Company Equipment ID:	GEN 1-34
Superseded Permit Number:	
General Permit Category and Type:	Not Applicable
Emissions Unit ID:	P035
Company Equipment ID:	GEN 1-35
Superseded Permit Number:	
General Permit Category and Type:	Not Applicable
Emissions Unit ID:	P036
Company Equipment ID:	GEN 1-36

Superseded Permit Number:	
General Permit Category and Type:	Not Applicable
Emissions Unit ID:	P037
Company Equipment ID:	GEN 1-37
Superseded Permit Number:	
General Permit Category and Type:	Not Applicable
Emissions Unit ID:	P038
Company Equipment ID:	GEN 1-38
Superseded Permit Number:	
General Permit Category and Type:	Not Applicable
Emissions Unit ID:	P039
Company Equipment ID:	GEN 1-39
Superseded Permit Number:	
General Permit Category and Type:	Not Applicable
Emissions Unit ID:	P040
Company Equipment ID:	GEN 1-40
Superseded Permit Number:	
General Permit Category and Type:	Not Applicable
Emissions Unit ID:	P041
Company Equipment ID:	GEN 1-41
Superseded Permit Number:	
General Permit Category and Type:	Not Applicable
Emissions Unit ID:	P042
Company Equipment ID:	GEN 1-42
Superseded Permit Number:	
General Permit Category and Type:	Not Applicable
Emissions Unit ID:	P043
Company Equipment ID:	GEN 2-1
Superseded Permit Number:	
General Permit Category and Type:	Not Applicable
Emissions Unit ID:	P044
Company Equipment ID:	GEN 2-2
Superseded Permit Number:	

General Permit Category and Type:	Not Applicable
Emissions Unit ID:	P045
Company Equipment ID:	GEN 2-3
Superseded Permit Number:	
General Permit Category and Type:	Not Applicable
Emissions Unit ID:	P046
Company Equipment ID:	GEN 2-4
Superseded Permit Number:	
General Permit Category and Type:	Not Applicable
Emissions Unit ID:	P047
Company Equipment ID:	GEN 2-5
Superseded Permit Number:	
General Permit Category and Type:	Not Applicable
Emissions Unit ID:	P048
Company Equipment ID:	GEN 2-6
Superseded Permit Number:	
General Permit Category and Type:	Not Applicable
Emissions Unit ID:	P049
Company Equipment ID:	GEN 2-7
Superseded Permit Number:	
General Permit Category and Type:	Not Applicable
Emissions Unit ID:	P050
Company Equipment ID:	GEN 2-8
Superseded Permit Number:	
General Permit Category and Type:	Not Applicable
Emissions Unit ID:	P051
Company Equipment ID:	GEN 2-9
Superseded Permit Number:	
General Permit Category and Type:	Not Applicable
Emissions Unit ID:	P052
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General Permit Category and Type:	Not Applicable

Emissions Unit ID:	P053
Company Equipment ID:	GEN 2-11
Superseded Permit Number:	
General Permit Category and Type:	Not Applicable
Emissions Unit ID:	P054
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General Permit Category and Type:	Not Applicable
Emissions Unit ID:	P055
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General Permit Category and Type:	Not Applicable
Emissions Unit ID:	P056
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General Permit Category and Type:	Not Applicable
Emissions Unit ID:	P057
Company Equipment ID:	GEN 2-15
Superseded Permit Number:	
General Permit Category and Type:	Not Applicable
Emissions Unit ID:	P058
Company Equipment ID:	GEN 2-16
Superseded Permit Number:	
General Permit Category and Type:	Not Applicable
Emissions Unit ID:	P059
Company Equipment ID:	GEN 2-17
Superseded Permit Number:	
General Permit Category and Type:	Not Applicable
Emissions Unit ID:	P060
Company Equipment ID:	GEN 2-18
Superseded Permit Number:	
General Permit Category and Type:	Not Applicable
Emissions Unit ID:	P061

Company Equipment ID:	GEN 2-19
Superseded Permit Number:	
General Permit Category and Type:	Not Applicable
Emissions Unit ID:	P062
Company Equipment ID:	GEN 2-20
Superseded Permit Number:	
General Permit Category and Type:	Not Applicable
Emissions Unit ID:	P063
Company Equipment ID:	GEN 2-21
Superseded Permit Number:	
General Permit Category and Type:	Not Applicable

Group Name: 3,000 kWe Gensets with SCR

Emissions Unit ID:	P064
Company Equipment ID:	GEN 2-22
Superseded Permit Number:	
General Permit Category and Type:	Not Applicable
Emissions Unit ID:	P065
Company Equipment ID:	GEN 2-23
Superseded Permit Number:	
General Permit Category and Type:	Not Applicable
Emissions Unit ID:	P066
Company Equipment ID:	GEN 2-24
Superseded Permit Number:	
General Permit Category and Type:	Not Applicable
Emissions Unit ID:	P067
Company Equipment ID:	GEN 2-25
Superseded Permit Number:	
General Permit Category and Type:	Not Applicable
Emissions Unit ID:	P068
Company Equipment ID:	GEN 2-26
Superseded Permit Number:	

General Permit Category and Type:	Not Applicable
Emissions Unit ID:	P069
Company Equipment ID:	GEN 2-27
Superseded Permit Number:	
General Permit Category and Type:	Not Applicable
Emissions Unit ID:	P070
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Superseded Permit Number:	
General Permit Category and Type:	Not Applicable
Emissions Unit ID:	P071
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General Permit Category and Type:	Not Applicable
Emissions Unit ID:	P072
Company Equipment ID:	GEN 2-30
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General Permit Category and Type:	Not Applicable
Emissions Unit ID:	P073
Company Equipment ID:	GEN 2-31
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General Permit Category and Type:	Not Applicable
Emissions Unit ID:	P074
Company Equipment ID:	GEN 2-32
Superseded Permit Number:	
General Permit Category and Type:	Not Applicable
Emissions Unit ID:	P075
Company Equipment ID:	GEN 2-33
Superseded Permit Number:	
General Permit Category and Type:	Not Applicable
Emissions Unit ID:	P076
Company Equipment ID:	GEN 2-34
Superseded Permit Number:	
General Permit Category and Type:	Not Applicable

Emissions Unit ID:	P077
Company Equipment ID:	GEN 2-35
Superseded Permit Number:	
General Permit Category and Type:	Not Applicable
Emissions Unit ID:	P078
Company Equipment ID:	GEN 2-36
Superseded Permit Number:	
General Permit Category and Type:	Not Applicable
Emissions Unit ID:	P079
Company Equipment ID:	GEN 2-37
Superseded Permit Number:	
General Permit Category and Type:	Not Applicable
Emissions Unit ID:	P080
Company Equipment ID:	GEN 2-38
Superseded Permit Number:	
General Permit Category and Type:	Not Applicable
Emissions Unit ID:	P081
Company Equipment ID:	GEN 2-39
Superseded Permit Number:	
General Permit Category and Type:	Not Applicable
Emissions Unit ID:	P082
Company Equipment ID:	GEN 2-40
Superseded Permit Number:	
General Permit Category and Type:	Not Applicable
Emissions Unit ID:	P083
Company Equipment ID:	GEN 2-41
Superseded Permit Number:	
General Permit Category and Type:	Not Applicable
Emissions Unit ID:	P084
Company Equipment ID:	GEN 2-42
Superseded Permit Number:	
General Permit Category and Type:	Not Applicable
Emissions Unit ID:	P085

Company Equipment ID:	GEN 3-1
Superseded Permit Number:	
General Permit Category and Type:	Not Applicable
Emissions Unit ID:	P086
Company Equipment ID:	GEN 3-2
Superseded Permit Number:	
General Permit Category and Type:	Not Applicable
Emissions Unit ID:	P087
Company Equipment ID:	GEN 3-3
Superseded Permit Number:	
General Permit Category and Type:	Not Applicable
Emissions Unit ID:	P088
Company Equipment ID:	GEN 3-4
Superseded Permit Number:	
General Permit Category and Type:	Not Applicable
Emissions Unit ID:	P089
Company Equipment ID:	GEN 3-5
Superseded Permit Number:	
General Permit Category and Type:	Not Applicable
Emissions Unit ID:	P090
Company Equipment ID:	GEN 3-6
Superseded Permit Number:	
General Permit Category and Type:	Not Applicable
Emissions Unit ID:	P091
Company Equipment ID:	GEN 3-7
Superseded Permit Number:	
General Permit Category and Type:	Not Applicable
Emissions Unit ID:	P092
Company Equipment ID:	GEN 3-8
Superseded Permit Number:	
General Permit Category and Type:	Not Applicable
Emissions Unit ID:	P093
Company Equipment ID:	GEN 3-9

Superseded Permit Number:	
General Permit Category and Type:	Not Applicable
Emissions Unit ID:	P094
Company Equipment ID:	GEN 3-10
Superseded Permit Number:	
General Permit Category and Type:	Not Applicable
Emissions Unit ID:	P095
Company Equipment ID:	GEN 3-11
Superseded Permit Number:	
General Permit Category and Type:	Not Applicable
Emissions Unit ID:	P096
Company Equipment ID:	GEN 3-12
Superseded Permit Number:	
General Permit Category and Type:	Not Applicable
Emissions Unit ID:	P097
Company Equipment ID:	GEN 3-13
Superseded Permit Number:	
General Permit Category and Type:	Not Applicable
Emissions Unit ID:	P098
Company Equipment ID:	GEN 3-14
Superseded Permit Number:	
General Permit Category and Type:	Not Applicable
Emissions Unit ID:	P099
Company Equipment ID:	GEN 3-15
Superseded Permit Number:	
General Permit Category and Type:	Not Applicable
Emissions Unit ID:	P100
Company Equipment ID:	GEN 3-16
Superseded Permit Number:	
General Permit Category and Type:	Not Applicable
Emissions Unit ID:	P101
Company Equipment ID:	GEN 3-17
Superseded Permit Number:	

General Permit Category and Type:	Not Applicable
Emissions Unit ID:	P102
Company Equipment ID:	GEN 3-18
Superseded Permit Number:	
General Permit Category and Type:	Not Applicable
Emissions Unit ID:	P103
Company Equipment ID:	GEN 3-19
Superseded Permit Number:	
General Permit Category and Type:	Not Applicable
Emissions Unit ID:	P104
Company Equipment ID:	GEN 3-20
Superseded Permit Number:	
General Permit Category and Type:	Not Applicable
Emissions Unit ID:	P105
Company Equipment ID:	GEN 3-21
Superseded Permit Number:	
General Permit Category and Type:	Not Applicable
Emissions Unit ID:	P106
Company Equipment ID:	GEN 3-22
Superseded Permit Number:	
General Permit Category and Type:	Not Applicable
Emissions Unit ID:	P107
Company Equipment ID:	GEN 3-23
Superseded Permit Number:	
General Permit Category and Type:	Not Applicable
Emissions Unit ID:	P108
Company Equipment ID:	GEN 3-24
Superseded Permit Number:	
General Permit Category and Type:	Not Applicable
Emissions Unit ID:	P109
Company Equipment ID:	GEN 3-25
Superseded Permit Number:	
General Permit Category and Type:	Not Applicable

Emissions Unit ID:	P110
Company Equipment ID:	GEN 3-26
Superseded Permit Number:	
General Permit Category and Type:	Not Applicable
Emissions Unit ID:	P111
Company Equipment ID:	GEN 3-27
Superseded Permit Number:	
General Permit Category and Type:	Not Applicable
Emissions Unit ID:	P112
Company Equipment ID:	GEN 3-28
Superseded Permit Number:	
General Permit Category and Type:	Not Applicable
Emissions Unit ID:	P113
Company Equipment ID:	GEN 3-29
Superseded Permit Number:	
General Permit Category and Type:	Not Applicable
Emissions Unit ID:	P114
Company Equipment ID:	GEN 3-30
Superseded Permit Number:	
General Permit Category and Type:	Not Applicable
Emissions Unit ID:	P115
Company Equipment ID:	GEN 3-31
Superseded Permit Number:	
General Permit Category and Type:	Not Applicable
Emissions Unit ID:	P116
Company Equipment ID:	GEN 3-32
Superseded Permit Number:	
General Permit Category and Type:	Not Applicable
Emissions Unit ID:	P117
Company Equipment ID:	GEN 3-33
Superseded Permit Number:	
General Permit Category and Type:	Not Applicable
Emissions Unit ID:	P118

Company Equipment ID:	GEN 3-34
Superseded Permit Number:	
General Permit Category and Type:	Not Applicable
Emissions Unit ID:	P119
Company Equipment ID:	GEN 3-35
Superseded Permit Number:	
General Permit Category and Type:	Not Applicable
Emissions Unit ID:	P120
Company Equipment ID:	GEN 3-36
Superseded Permit Number:	
General Permit Category and Type:	Not Applicable
Emissions Unit ID:	P121
Company Equipment ID:	GEN 3-37
Superseded Permit Number:	
General Permit Category and Type:	Not Applicable
Emissions Unit ID:	P122
Company Equipment ID:	GEN 3-38
Superseded Permit Number:	
General Permit Category and Type:	Not Applicable
Emissions Unit ID:	P123
Company Equipment ID:	GEN 3-39
Superseded Permit Number:	
General Permit Category and Type:	Not Applicable
Emissions Unit ID:	P124
Company Equipment ID:	GEN 3-40
Superseded Permit Number:	
General Permit Category and Type:	Not Applicable
Emissions Unit ID:	P125
Company Equipment ID:	GEN 3-41
Superseded Permit Number:	
General Permit Category and Type:	Not Applicable
Emissions Unit ID:	P126
Company Equipment ID:	GEN 3-42

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	HVLP = high volume, low pressure	PER = Permit Evaluation Report
ASTM = American Society for Testing and Materials	LAER = lowest achievable emission rate	PM = particulate matter
BACT = Best Available Control Technology	lb(s)/hr = pound(s) per hour	PM ₁₀ = particulate matter with an aerodynamic diameter less than or equal to 10 microns
BAT = Best Available Technology	LDAR = leak detection and repair	PM _{2.5} = particulate matter with an aerodynamic diameter less than or equal to 2.5 microns
CAA = Clean Air Act	LPG = liquefied petroleum gas/propane	ppb = parts per billion
CAM = compliance assurance monitoring	MACT = maximum achievable control technology	ppm = parts per million
CEMS = continuous emissions monitoring system	MAGLC = maximum acceptable ground level concentration	PSD = Prevention of Significant Deterioration
CFC = chlorofluorocarbon	mg/m ³ = milligrams per cubic meter	psi = pounds per square inch
CFR = Code of Federal Regulations	MM = million	psia = pounds per square inch absolute
CH ₄ = methane	MMBtu = million British Thermal Units	PTE = potential-to-emit
CI = compression ignition	MSDS = material safety data sheet	PTI = Permit-to-Install
CO = carbon monoxide	MSW = municipal solid waste	PTIO = Permit-to-Install and Operate
CO ₂ = carbon dioxide	NAAQS = National Ambient Air Quality Standard	PTO = Permit-to-Operate
COM = continuous opacity monitor	NESHAP = National Emission Standard for Hazardous Air Pollutants	PWR = process weight rate
DAPC = Division of Air Pollution Control	NG = natural gas	RACM = reasonably available control measures
DO/LAA = District Office/Local Air Agency	ng/m ³ = nanograms per cubic meter	RACT = reasonably available control technology
dscf = dry standard cubic foot	NH ₃ = ammonia	RATA = relative accuracy test audit
EAC = emissions activity category	NMHC = non-methane hydrocarbons	RTO = regenerative thermal oxidizer
eDocs = electronic documents database	NMOC = non-methane organic compound	SB265 = Senate Bill 265
ERAC = Environmental Review Appeals Commission	NO = nitrogen oxide	scfm = standard cubic feet per minute
ESP = electrostatic precipitator	NO ₂ = nitrogen dioxide	SI = spark ignition
EU = emissions unit	NO _x = nitrogen oxides	SIP = State Implementation Plan
FEPTIO = Federally Enforceable Permit-to-Install and Operate	NSPS = New Source Performance Standard	SO ₂ = sulfur dioxide
FER = Fee Emissions Report	NSR = New Source Review	SSMP = startup, shutdown, and malfunction plan
FR = Federal Register	NTV = Non-Title V	TDS = total dissolved solids
GACT = generally achievable control technology	O&M = operation and maintenance	TLV = threshold limit value
GHG = greenhouse gases	OAC = Ohio Administrative Code	TO = thermal oxidizer
gr/dscf = grains per dry standard cubic foot	OC = organic compound	TPH = ton(s) per hour
H ₂ S = hydrogen sulfide	Ohio EPA = Ohio Environmental Protection Agency	TPY = ton(s) per year
H ₂ SO ₄ = sulfuric acid	ORC = Ohio Revised Code	TSP = total suspended particulates
HAP = hazardous air pollutant	Pb = lead	VE = visible particulate emissions
HCl = hydrogen chloride	PBR = Permit-By-Rule	VMT = vehicle miles traveled
HF = hydrogen fluoride	PCB = polychlorinated biphenyl	VOC = volatile organic compound
Hg = mercury	PE = particulate emissions	WPP = work practice plan
hp = horsepower	PEMS = predictive emissions monitoring system	µg/m ³ = micrograms per cubic meter

A. Standard Terms and Conditions

1. Federally Enforceable Standard Terms and Conditions

- a) All Standard Terms and Conditions are federally enforceable, with the exception of those listed below which are enforceable under state law only:
 - (1) Standard Term and Condition A.2.a), Severability Clause
 - (2) Standard Term and Condition A.3.c) through A. 3.e), General Requirements
 - (3) Standard Term and Condition A.6.c), Compliance Requirements
 - (4) Standard Term and Condition A.9., Reporting Requirements
 - (5) Standard Term and Condition A.10., Applicability
 - (6) Standard Term and Condition A.11.b) through A.11.e), Construction of New Source(s) and Authorization to Install
 - (7) Standard Term and Condition A.14., Public Disclosure
 - (8) Standard Term and Condition A.15., Additional Reporting Requirements When There Are No Deviations of Federally Enforceable Emission Limitations, Operational Restrictions, or Control Device Operating Parameter Limitations
 - (9) Standard Term and Condition A.16., Fees
 - (10) Standard Term and Condition A.17., Permit Transfers

2. Severability Clause

- a) A determination that any term or condition of this permit is invalid shall not invalidate the force or effect of any other term or condition thereof, except to the extent that any other term or condition depends in whole or in part for its operation or implementation upon the term or condition declared invalid.
- b) All terms and conditions designated in parts B. and C. of this permit are federally enforceable as a practical matter, if they are required under the Act, or any of its applicable requirements, including relevant provisions designed to limit the potential to emit of a source, are enforceable by the Administrator of the U.S. EPA and the state and by citizens (to the extent allowed by section 304 of the Act) under the Act. Terms and conditions in parts B and C of this permit shall not be federally enforceable and shall be enforceable under state law only, only if specifically identified in this permit as such.

3. General Requirements

- a) Any noncompliance with the federally enforceable terms and conditions of this permit constitutes a violation of the Act and is grounds for enforcement action or for permit revocation, revocation and re-issuance, or modification.
- b) It shall not be a defense for the permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the federally enforceable terms and conditions of this permit.
- c) This permit may be modified, revoked, or revoked and reissued, for cause. The filing of a request by the permittee for a permit modification, revocation and reissuance, or revocation, or of a notification of planned changes or anticipated noncompliance does not stay any term and condition of this permit.
- d) This permit does not convey any property rights of any sort, or any exclusive privilege.
- e) The permittee shall furnish to the Director of the Ohio EPA, or an authorized representative of the Director, upon receipt of a written request and within a reasonable time, any information that may

be requested to determine whether cause exists for modifying or revoking this permit or to determine compliance with this permit. Upon request, the permittee shall also furnish to the Director or an authorized representative of the Director, copies of records required to be kept by this permit. For information claimed to be confidential in the submittal to the Director, if the Administrator of the U.S. EPA requests such information, the permittee may furnish such records directly to the Administrator along with a claim of confidentiality.

4. Monitoring and Related Record Keeping and Reporting Requirements

- a) Except as may otherwise be provided in the terms and conditions for a specific emissions unit, the permittee shall maintain records that include the following, where applicable, for any required monitoring under this permit:
 - (1) The date, place (as defined in the permit), and time of sampling or measurements.
 - (2) The date(s) analyses were performed.
 - (3) The company or entity that performed the analyses.
 - (4) The analytical techniques or methods used.
 - (5) The results of such analyses.
 - (6) The operating conditions existing at the time of sampling or measurement.
- b) Each record of any monitoring data, testing data, and support information required pursuant to this permit shall be retained for a period of five years from the date the record was created. Support information shall include, but not be limited to all calibration and maintenance records and all original strip-chart recordings for continuous monitoring instrumentation, and copies of all reports required by this permit. Such records may be maintained in computerized form.
- c) Except as may otherwise be provided in the terms and conditions for a specific emissions unit, the permittee shall submit required reports in the following manner:
 - (1) Reports of any required monitoring and/or recordkeeping of federally enforceable information shall be submitted to the Ohio EPA DAPC, Central Office.
 - (2) Quarterly written reports of (i) any deviations from federally enforceable emission limitations, operational restrictions, and control device operating parameter limitations, excluding deviations resulting from malfunctions reported in accordance with OAC rule 3745-15-06, that have been detected by the testing, monitoring and recordkeeping requirements specified in this permit, (ii) the probable cause of such deviations, and (iii) any corrective actions or preventive measures taken, shall be made to the Ohio EPA DAPC, Central Office. The written reports shall be submitted (i.e., postmarked) quarterly, by January 31, April 30, July 31, and October 31 of each year and shall cover the previous calendar quarters. See A.15. below if no deviations occurred during the quarter.
 - (3) Written reports, which identify any deviations from the federally enforceable monitoring, recordkeeping, and reporting requirements contained in this permit shall be submitted to the DO/LAA every six months, by January 31 and July 31 of each year for the previous six calendar months. If no deviations occurred during a six-month period, the permittee shall submit a semiannual report, which states that no deviations occurred during that period.
 - (4) This permit is for an emissions unit located at a Title V facility. Each written report shall be signed by a responsible official certifying that, based on information and belief formed after reasonable inquiry, the statements and information in the report are true, accurate, and complete.

- d) The permittee shall report actual emissions pursuant to OAC Chapter 3745-78 for the purpose of collecting Air Pollution Control Fees.

5. Scheduled Maintenance/Malfunction Reporting

Any scheduled maintenance of air pollution control equipment shall be performed in accordance with paragraph (A) of OAC rule 3745-15-06. The malfunction, i.e., upset, of any emissions units or any associated air pollution control system(s) shall be reported to the Ohio EPA DAPC, Central Office in accordance with paragraph (B) of OAC rule 3745-15-06. (The definition of an upset condition shall be the same as that used in OAC rule 3745-15-06(B)(1) for a malfunction). The verbal and written reports shall be submitted pursuant to OAC rule 3745-15-06.

Except as provided in that rule, any scheduled maintenance or malfunction necessitating the shutdown or bypassing of any air pollution control system(s) shall be accompanied by the shut down of the emission unit(s) that is (are) served by such control system(s).

6. Compliance Requirements

- a) 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 appropriate Ohio EPA District Office or contracted 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 electronic signature date shall constitute the date that the required application, notification or report is considered to be "submitted". Any document requiring signature may be represented by entry of the personal identification number (PIN) by responsible official as part of the electronic submission process or by the scanned attestation document signed by the Authorized Representative that is attached to the electronically submitted written report.

Any document (including reports) required to be submitted and required by a federally applicable requirement in this permit shall include a certification by a Responsible Official that, based on information and belief formed after reasonable inquiry, the statements in the document are true, accurate, and complete.

- b) Upon presentation of credentials and other documents as may be required by law, the permittee shall allow the Director of the Ohio EPA or an authorized representative of the Director to:
 - (1) At reasonable times, enter upon the permittee's premises where a source is located, or the emissions-related activity is conducted, or where records must be kept under the conditions of this permit.
 - (2) Have access to and copy, at reasonable times, any records that must be kept under the conditions of this permit, subject to the protection from disclosure to the public of confidential information consistent with ORC section 3704.08.
 - (3) Inspect at reasonable times any facilities, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under this permit.
 - (4) As authorized by the Act, sample or monitor at reasonable times substances or parameters for the purpose of assuring compliance with the permit and applicable requirements.

- c) The permittee shall submit progress reports to the Ohio EPA DAPC, Central Office concerning any schedule of compliance for meeting an applicable requirement. Progress reports shall be submitted semiannually or more frequently if specified in the applicable requirement or by the Director of the Ohio EPA. Progress reports shall contain the following:
 - (1) Dates for achieving the activities, milestones, or compliance required in any schedule of compliance, and dates when such activities, milestones, or compliance were achieved.
 - (2) An explanation of why any dates in any schedule of compliance were not or will not be met, and any preventive or corrective measures adopted.

7. Best Available Technology

As specified in OAC Rule 3745-31-05, new sources that must employ Best Available Technology (BAT) shall comply with the Applicable Emission Limitations/Control Measures identified as BAT for each subject emissions unit.

8. Air Pollution Nuisance

The air contaminants emitted by the emissions units covered by this permit shall not cause a public nuisance, in violation of OAC rule 3745-15-07.

9. Reporting Requirements

The permittee shall submit required reports in the following manner:

- a) Reports of any required monitoring and/or recordkeeping of state-only enforceable information shall be submitted to the Ohio EPA DAPC, Central Office.
- b) Except as otherwise may be provided in the terms and conditions for a specific emissions unit, quarterly written reports of (a) any deviations (excursions) from state-only required emission limitations, operational restrictions, and control device operating parameter limitations that have been detected by the testing, monitoring, and recordkeeping requirements specified in this permit, (b) the probable cause of such deviations, and (c) any corrective actions or preventive measures which have been or will be taken, shall be submitted to the Ohio EPA DAPC, Central Office. If no deviations occurred during a calendar quarter, the permittee shall submit a quarterly report, which states that no deviations occurred during that quarter. The reports shall be submitted quarterly, by January 31, April 30, July 31, and October 31 of each year and shall cover the previous calendar quarters. (These quarterly reports shall exclude deviations resulting from malfunctions reported in accordance with OAC rule 3745-15-06.)

10. Applicability

This permit-to-install is applicable only to the emissions unit(s) identified in the permit-to-install. Separate application must be made to the Director for the installation or modification of any other emissions unit(s) not exempt from the requirement to obtain a permit-to-install.

11. Construction of New Sources(s) and Authorization to Install

- a) This permit does not constitute an assurance that the proposed source will operate in compliance with all Ohio laws and regulations. This permit does not constitute expressed or implied assurance that the proposed facility has been constructed in accordance with the application and terms and conditions of this permit. The action of beginning and/or completing construction prior to obtaining the Director's approval constitutes a violation of OAC rule 3745-31-02. Furthermore, issuance of this permit does not constitute an assurance that the proposed source will operate in compliance with all Ohio laws and regulations. Issuance of this permit is not to be construed as a waiver of any rights that the Ohio Environmental Protection Agency (or other persons) may have against the applicant for starting construction prior to the effective date of the permit. Additional facilities shall be installed

upon orders of the Ohio Environmental Protection Agency if the proposed facilities cannot meet the requirements of this permit or cannot meet applicable standards.

- b) If applicable, authorization to install any new emissions unit included in this permit shall terminate within eighteen months of the effective date of the permit if the owner or operator has not undertaken a continuing program of installation or has not entered into a binding contractual obligation to undertake and complete within a reasonable time a continuing program of installation. This deadline may be extended once by twelve months if application is made to the Director within a reasonable time before the termination date and the permittee shows good cause for any such extension.
- c) The permittee may notify Ohio EPA of any emissions unit that is permanently shut down (i.e., 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) by submitting a certification from the authorized official that identifies the date on which the emissions unit was permanently shut down. Authorization to operate the affected emissions unit shall cease upon the date certified by the authorized official that the emissions unit was permanently shut down. At a minimum, notification of permanent shut down shall be made or confirmed by marking the affected emissions unit(s) as "permanently shut down" in "Air Services" along with the date the emissions unit(s) was permanently removed and/or disabled. Submitting the facility profile update electronically will constitute notifying the Director of the permanent shut down of the affected emissions unit(s).
- d) The provisions of this permit shall cease to be enforceable for each affected emissions unit after the date on which an emissions unit is permanently shut down (i.e., 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). All records relating to any permanently shut down emissions unit, generated while the emissions unit was in operation, must be maintained in accordance with law. All reports required by this permit must be submitted for any period an affected emissions unit operated prior to permanent shut down. At a minimum, the permit requirements must be evaluated as part of the reporting requirements identified in this permit covering the last period the emissions unit operated.

Unless otherwise exempted, no emissions unit certified by the responsible official as being permanently shut down may resume operation without first applying for and obtaining a permit pursuant to OAC Chapter 3745-31 and OAC Chapter 3745-77 if the restarted operation is subject to one or more applicable requirements.

- e) The permittee shall comply with any residual requirements related to this permit, such as the requirement to submit a deviation report, air fee emission report, or any other reporting required by this permit for the period the operating provisions of this permit were enforceable, or as required by regulation or law. All reports shall be submitted in a form and manner prescribed by the Director. All records relating to this permit must be maintained in accordance with law.

12. Permit-To-Operate Application

The permittee is required to apply for a Title V permit pursuant to OAC Chapter 3745-77. The permittee shall submit a complete Title V permit application or a complete Title V permit modification application within twelve months after commencing operation of the emissions units covered by this permit. However, if operation of the proposed new or modified source(s) as authorized by this permit would be prohibited by the terms and conditions of an existing Title V permit, a Title V permit modification of such new or modified source(s) pursuant to OAC rule 3745-77-04(D) and OAC rule 3745-77-08(C)(3)(d) must be obtained before operating the source in a manner that would violate the existing Title V permit requirements.

13. Construction Compliance Certification

The applicant shall identify the following dates in the "Air Services" facility profile for each new emissions unit identified in this permit.

- a) Completion of initial installation date shall be entered upon completion of construction and prior to start-up.
- b) Commence operation after installation or latest modification date shall be entered within 90 days after commencing operation of the applicable emissions unit.

14. Public Disclosure

The facility is hereby notified that this permit, and all agency records concerning the operation of this permitted source, are subject to public disclosure in accordance with OAC rule 3745-49-03.

15. Additional Reporting Requirements When There Are No Deviations of Federally Enforceable Emission Limitations, Operational Restrictions, or Control Device Operating Parameter Limitations

If no deviations occurred during a calendar quarter, the permittee shall submit a quarterly report, which states that no deviations occurred during that quarter. The reports shall be submitted quarterly by January 31, April 30, July 31, and October 31 of each year and shall cover the previous calendar quarters.

16. Fees

The permittee shall pay any fees to Ohio EPA in accordance with ORC section 3745.11 and OAC Chapter 3745-78. The permittee shall pay all applicable permit-to-install fees within 30 days after the issuance of any permit-to-install. Failure to provide the applicable permit fee within 30 days may result in the accrual of substantial interest penalties. The permittee shall pay all applicable permit-to-operate fees within thirty days of the issuance of the invoice.

17. Permit Transfers

Any transferee of this permit shall assume the responsibilities of the prior permit holder. The new owner must update and submit the ownership information via the "Owner/Contact Change" functionality in "Air Services" once the transfer is legally completed. The change must be submitted through "Air Services" within thirty days of the ownership transfer date.

18. Risk Management Plans

If the permittee is required to develop and register a risk management plan pursuant to section 112(r) of the Clean Air Act, as amended, 42 U.S.C. 7401 et seq. ("Act"), the permittee shall comply with the requirement to register such a plan.

19. Title IV Provisions

If the permittee is subject to the requirements of 40 CFR Part 72 concerning acid rain, the permittee shall ensure that any affected emissions unit complies with those requirements. Emissions exceeding any allowances that are lawfully held under Title IV of the Act, or any regulations adopted thereunder, are prohibited.

B. Facility Wide Terms and Conditions

1. All the following facility-wide terms and conditions are federally enforceable with the exception of those listed below which are enforceable under state law only.
 - a) None.
2. 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, DO/LAA.

C. Emissions Unit Terms and Conditions

1. **Emissions Unit Group - 3,000 kWe Gensets: P001, P002, P003, P004, P005, P006, P007, P008, P009, P010, P011, P012, P013, P014, P015, P016, P017, P018, P019, P020, P021, P022, P023, P024, P025, P026, P027, P028, P029, P030, P031, P032, P033, P034, P035, P036, P037, P038, P039, P040, P041, P042, P043, P044, P045, P046, P047, P048, P049, P050, P051, P052, P053, P054, P055, P056, P057, P058, P059, P060, P061, P062, and P063**

EU IDs	Operations, Property and/or Equipment Description
P001 through P042	3,000 kWe CAT 3516E Emergency Generator Engine, GEN 1-1 through GEN 1-42
P043 through P063	3,000 kWe CAT 3516E, CAT C175-16, or MTU 20V4000G94S Emergency Generator Engine, GEN 2-1 through GEN 2-21

- a) The following emissions unit terms and conditions are federally enforceable with the exception of those listed below which are enforceable under state law only.

(1) See b)(1)g. 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 percent opacity as a six-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)	The emissions unit shall meet the standards established for NO _x emissions in 40 CFR Part 60, Subpart IIII.
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 NSR]	NO _x emissions from emissions units P001 through P129, combined, shall not exceed 245.0 tons per rolling, 12-month period.



		CO emissions from emissions units P001 through P129, combined, shall not exceed 229.0 tons per rolling, 12-month period. See c)(1) below.
g.	OAC rule 3745-31-05(E) [State-only enforceable limitation to avoid modeling]	PM ₁₀ emissions from emissions units P001 through P129, combined, shall not exceed 14.9 tons per rolling, 12-month period. PM _{2.5} emissions from emissions units P001 through P129, combined, shall not exceed 9.9 tons per rolling, 12-month period. See c)(1) below.
h.	OAC rule 3745-110-03	See b)(2)e. below.
i.	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.
j.	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 ULSD that meets the following conditions:
- 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. For the purpose of meeting the exemption in OAC rule 3745-110-03(K)(2), 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 maximum fuel usage for emissions units P001 through P129 shall be limited by the following formulas for each rolling, 12-month period:

245.0 tons of NO_x ≥

$$\sum_{i=P001}^{P129} \left[\frac{(\text{NO}_x \text{ EF} \leq 25\% \text{ load}, i)(Q \leq 25\% \text{ load}, i) + (\text{NO}_x \text{ EF} > 25\% \text{ load}, i)(Q > 25\% \text{ load}, i)}{2,000 \frac{\text{lb}}{\text{ton}}} \right]$$

229.0 tons of CO ≥

$$\sum_{i=P001}^{P129} \left[\frac{(\text{CO EF} \leq 25\% \text{ load}, i)(Q \leq 25\% \text{ load}, i) + (\text{CO EF} > 25\% \text{ load}, i)(Q > 25\% \text{ load}, i)}{2,000 \frac{\text{lb}}{\text{ton}}} \right]$$

14.9 tons of PM₁₀ ≥

$$\sum_{i=P001}^{P129} \left[\frac{(\text{PM}_{10} \text{ EF} \leq 25\% \text{ load}, i)(Q \leq 25\% \text{ load}, i) + (\text{PM}_{10} \text{ EF} > 25\% \text{ load}, i)(Q > 25\% \text{ load}, i)}{2,000 \frac{\text{lb}}{\text{ton}}} \right]$$

9.9 tons of PM_{2.5} ≥

$$\sum_{i=P001}^{P129} \left[\frac{(\text{PM}_{2.5} \text{ EF} \leq 25\% \text{ load}, i)(Q \leq 25\% \text{ load}, i) + (\text{PM}_{2.5} \text{ EF} > 25\% \text{ load}, i)(Q > 25\% \text{ load}, i)}{2,000 \frac{\text{lb}}{\text{ton}}} \right]$$

where:

i = each emissions unit (P001 through P129)

$NO_x EF_{\leq 25\% \text{ load}, i}$ = the NO_x emissions factor, in lb/gal, for each emissions unit, i , when operating at less than or equal to 25% load as provided in Table 1 below based on the manufacturer's design specifications in the permit application:

Table 1: NO_x Emissions Factors for $\leq 25\%$ Load Operations

Emissions Units	Engine Model	Emissions Factor (lb/gal)
P001 through P042	CAT 3516E	0.454
P043 through P126 (Uncontrolled)	CAT 3516E	0.454
	CAT C175-16	0.167
	MTU 20V4000G94S	0.474
P064 through P126 (Controlled)	CAT 3516E	0.116
	CAT C175-16	0.0434
	MTU 20V4000G94S	0.123
P127 through P129	CAT 3512C	0.313
	CAT C32B	0.296

$Q_{\leq 25\% \text{ load}, i}$ = the number of gallons of fuel used by each emissions unit, i , while operating at less than or equal to 25% load during the rolling, 12-month period

$NO_x EF_{> 25\% \text{ load}, i}$ = the NO_x emissions factor, in lb/gal, for each emissions unit, i , when operating at more than 25% load as provided in Table 2 below based on the manufacturer's design specifications in the permit application

Table 2: NO_x Emissions Factors for $> 25\%$ Load Operations

Emissions Units	Engine Model	Emissions Factor (lb/gal)
P001 through P042	CAT 3516E	0.314
P043 through P126 (Uncontrolled)	CAT 3516E	0.314
	CAT C175-16	0.336
	MTU 20V4000G94S	0.298
P064 through P126 (Controlled)	CAT 3516E	0.0312
	CAT C175-16	0.0336
	MTU 20V4000G94S	0.0298
P127 through P129	CAT 3512C	0.301
	CAT C32B	0.336

$Q_{>25\% \text{ load},i}$ = the number of gallons of fuel used by each emissions unit, i , while operating at more than 25% load during the rolling, 12-month period

$\text{CO EF}_{\leq 25\% \text{ load},i}$ = the CO emissions factor, in lb/gal, for each emissions unit, i , when operating at less than or equal to 25% load as provided in Table 3 below based on the manufacturer's design specifications in the permit application

Table 3: CO Emissions Factors for $\leq 25\%$ Load Operations

Emissions Units	Engine Model	Emissions Factor (lb/gal)
P001 through P042	CAT 3516E	0.166
P043 through P126	CAT 3516E	0.166
	CAT C175-16	0.0910
	MTU 20V4000G94S	0.311
P127 through P129	CAT 3512C	0.210
	CAT C32B	0.201

$\text{CO EF}_{>25\% \text{ load},i}$ = the CO emissions factor, in lb/gal, for each emissions unit, i , when operating at more than 25% load as provided in Table 4 below based on the manufacturer's design specifications in the permit application

Table 4: CO Emissions Factors for $> 25\%$ Load Operations

Emissions Units	Engine Model	Emissions Factor (lb/gal)
P001 through P042	CAT 3516E	0.0584
P043 through P126	CAT 3516E	0.0584
	CAT C175-16	0.0468
	MTU 20V4000G94S	0.0496
P127 through P129	CAT 3512C	0.0625
	CAT C32B	0.131

$\text{PM}_{10} \text{ EF}_{\leq 25\% \text{ load},i} = \text{PM}_{2.5} \text{ EF}_{\leq 25\% \text{ load},i}$ = the PM_{10} and $\text{PM}_{2.5}$ emissions factor, in lb/gal, for each emissions unit, i , when operating at less than or equal to 25% load as provided in Table 5 below based on the manufacturer's design specifications in the permit application

Table 5: PM_{10} and $\text{PM}_{2.5}$ Emissions Factors for $\leq 25\%$ Load Operations

Emissions Units	Engine Model	Emissions Factor (lb/gal)
P001 through P042	CAT 3516E	0.0081
P043 through P126	CAT 3516E	0.0081

	CAT C175-16	0.0076
	MTU 20V4000G94S	0.059
P127 through P129	CAT 3512C	0.013
	CAT C32B	0.0079

$PM_{10} EF_{>25\% load,i} = PM_{2.5} EF_{>25\% load,i}$ = the PM_{10} and $PM_{2.5}$ emissions factor, in lb/gal, for each emissions unit, i, when operating at more than 25% load as provided in Table 6 below based on the manufacturer's design specifications in the permit application

Table 6: PM_{10} and $PM_{2.5}$ Emissions Factors for > 25% Load Operations

Emissions Units	Engine Model	Emissions Factor (lb/gal)
P001 through P042	CAT 3516E	0.0067
P043 through P126	CAT 3516E	0.0067
	CAT C175-16	0.0034
	MTU 20V4000G94S	0.0062
P127 through P129	CAT 3512C	0.0068
	CAT C32B	0.0084

- (2) 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 III; 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 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).
- 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 records of the following information for each period time when the emissions unit was in operation:
 - a. the date and total number of hours the engine was in operation;
 - b. the reason the engine was in operation (e.g., emergency operation, non-emergency operation, maintenance checks and readiness testing); and
 - c. what classified the operation as an emergency, if applicable.
- (6) The permittee shall maintain monthly records of the rolling, 12-month summation of the number of hours the engine was in operation.
- (7) The permittee shall maintain documentation on the manufacturer's performance data including emission rates by load percentage, for the specific make and model of engine installed. The permittee shall also maintain documentation on the parameter(s) used (RMPs, fuel flow, etc.), to measure the load on each engine.
- (8) The permittee shall maintain monthly records of the following information:
 - a. the number of gallons of fuel used by each emissions unit for P001 through P129 while operating at less than or equal to 25% load for each operating scenario (i.e., controlled or uncontrolled);
 - b. the number of gallons of fuel used by each emissions unit for P001 through P129 while operating at greater than 25% load for each operating scenario (i.e., controlled or uncontrolled);
 - c. the rolling, 12-month summation of NO_x emissions from emissions units P001 through P129, combined, in tons;
 - d. the rolling, 12-month summation of CO emissions from emissions units P001 through P129, combined, in tons;
 - e. the rolling, 12-month summation of PM₁₀ emissions from emissions units P001 through P129, combined, in tons; and
 - f. the rolling, 12-month summation of PM_{2.5} emissions from emissions units P001 through P129, combined, in tons.

The rolling, 12-month summation of NO_x, CO, PM₁₀, and PM_{2.5} emissions shall be calculated using emissions factors based on the manufacturer's technical specifications and/or AP-42. The emissions factors that shall be used are specified in Tables 1 through 6 above.

e) Reporting Requirements

- (1) The permittee shall submit to Ohio EPA, DO/LAA 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 quarterly deviation (excursion) reports that identify:
 - a. all exceedances of the rolling, 12-month fuel limitation specified in c)(1) above;

- b. all exceedances of the rolling, 12-month NO_x emissions limitation;
- c. all exceedances of the rolling, 12-month CO emissions limitation;
- d. all exceedances of the rolling, 12-month PM₁₀ emissions limitation;
- e. all exceedances of the rolling, 12-month PM_{2.5} emissions limitation;
- f. the probable cause of each deviation (excursion);
- g. any corrective actions that were taken to remedy the deviations (excursions) or prevent future deviations (excursions); and
- h. 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 appropriate Ohio EPA DO/LAA.

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 percent opacity as a six-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 which specifies not-to-exceed PM emissions rates.

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 P129, combined, shall not exceed 245.0 tons per rolling, 12-month period.

CO emissions from emissions units P001 through P129, combined, shall not exceed 229.0 tons per rolling, 12-month period.

PM₁₀ emissions from emissions units P001 through P129, combined, shall not exceed 14.9 tons per rolling, 12-month period.

PM_{2.5} emissions from emissions units P001 through P129, combined, shall not exceed 9.9 tons per rolling, 12-month period.

Applicable Compliance Method

Compliance with these emissions limitations shall be determined through the monitoring and recordkeeping requirements specified in d) 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;

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.

2. **Emissions Unit Group - 3,000 kWe Gensets with SCR: P064, P065, P066, P067, P068, P069, P070, P071, P072, P073, P074, P075, P076, P077, P078, P079, P080, P081, P082, P083, P084, P085, P086, P087, P088, P089, P090, P091, P092, P093, P094, P095, P096, P097, P098, P099, P100, P101, P102, P103, P104, P105, P106, P107, P108, P109, P110, P111, P112, P113, P114, P115, P116, P117, P118, P119, P120, P121, P122, P123, P124, P125, and P126**

EU ID		Operations, Property and/or Equipment Description
P064 P084	through	3,000 kWe CAT 3516E, CAT C175-16, or MTU 20V4000G94S Emergency Generator Engine Venting to an SCR, GEN 2-22 through GEN 2-42
P085 P126	through	3,000 kWe CAT 3516E, CAT C175-16, or MTU 20V4000G94S Emergency Generator Engine Venting to an SCR, GEN 3-1 through GEN 3-42

- a) The following emissions unit terms and conditions are federally enforceable with the exception of those listed below which are enforceable under state law only.
- (1) See b)(1)f., b)(1)j., and b)(2)f. 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 percent opacity as a six-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)(a)(ii)	The BAT requirements under OAC rule 3745-31-05(A)(3) do not apply to the NO _x , 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 taking into account the SCR that is required under OAC rule 3745-31-05(D).
e.	OAC rule 3745-31-05(D) [Federally enforceable limitations to avoid NSR]	NO _x emissions from emissions units P001 through P129, combined, shall not exceed 245.0 tons per rolling, 12-month period.

		CO emissions from emissions units P001 through P129, combined, shall not exceed 229.0 tons per rolling, 12-month period. See c)(1) and c)(2) below.
f.	OAC rule 3745-31-05(E) [State-only enforceable limitation to avoid modeling]	PM ₁₀ emissions from emissions units P001 through P129, combined, shall not exceed 14.9 tons per rolling, 12-month period. PM _{2.5} emissions from emissions units P001 through P129, combined, shall not exceed 9.9 tons per rolling, 12-month period. Ammonia emissions from emissions units P064 through P126, combined, shall not exceed 0.9 tons per rolling, 12-month period. See c)(1) below.
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.
j.	ORC 3704.03(F)(3)(c) and (F)(4) [Toxic air contaminant statute]	See b)(2)f. below.

(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 ULSD that meets the following conditions:
 - 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. For the purpose of meeting the exemption in OAC rule 3745-110-03(K)(2), 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.
- f. Modeling to demonstrate compliance with the *Toxic Air Contaminant Statute*, ORC 3704.03(F)(4)(b), was not necessary because the EUs' maximum annual emissions for each toxic air contaminant, as defined in OAC rule 3745-114-01, will be less than 1 TPY. OAC Chapter 3745-31 requires a permittee to apply for and obtain a new or modified PTI prior to making a *modification* as defined by OAC rule 3745-31-01. The permittee is hereby advised that changes in the composition of the materials or use of new materials, that would cause the emissions of any toxic air contaminant to increase to above 1 TPY, may require the permittee to apply for and obtain a new PTI.

c) Operational Restrictions

- (1) The maximum fuel usage for emissions units P001 through P129 shall be limited by the following formulas for each rolling, 12-month period:

245.0 tons of NO_x ≥

$$\sum_{i=P001}^{P129} \left[\frac{(\text{NO}_x \text{ EF} \leq 25\% \text{ load}, i)(Q \leq 25\% \text{ load}, i) + (\text{NO}_x \text{ EF} > 25\% \text{ load}, i)(Q > 25\% \text{ load}, i)}{2,000 \frac{\text{lb}}{\text{ton}}} \right]$$

229.0 tons of CO ≥

$$\sum_{i=P001}^{P129} \left[\frac{(\text{CO EF} \leq 25\% \text{ load}, i)(Q \leq 25\% \text{ load}, i) + (\text{CO EF} > 25\% \text{ load}, i)(Q > 25\% \text{ load}, i)}{2,000 \frac{\text{lb}}{\text{ton}}} \right]$$

14.9 tons of PM₁₀ ≥



$$\sum_{i=P001}^{P129} \left[\frac{(\text{PM}_{10} \text{EF}_{\leq 25\% \text{ load},i})(Q_{\leq 25\% \text{ load},i}) + (\text{PM}_{10} \text{EF}_{> 25\% \text{ load},i})(Q_{> 25\% \text{ load},i})}{2,000 \frac{\text{lb}}{\text{ton}}} \right]$$

9.9 tons of PM_{2.5} ≥

$$\sum_{i=P001}^{P129} \left[\frac{(\text{PM}_{2.5} \text{EF}_{\leq 25\% \text{ load},i})(Q_{\leq 25\% \text{ load},i}) + (\text{PM}_{2.5} \text{EF}_{> 25\% \text{ load},i})(Q_{> 25\% \text{ load},i})}{2,000 \frac{\text{lb}}{\text{ton}}} \right]$$

0.9 tons of ammonia ≥

$$\sum_{i=P064}^{P126} \left[\frac{(\text{NH}_3 \text{EF}_{\leq 25\% \text{ load},i})(Q_{\leq 25\% \text{ load},i}) + (\text{NH}_3 \text{EF}_{> 25\% \text{ load},i})(Q_{> 25\% \text{ load},i})}{2,000 \frac{\text{lb}}{\text{ton}}} \right]$$

where:

i = each emissions unit (P001 through P129 for NO_x, CO, PM₁₀, and PM_{2.5}; and P064 through P126 for ammonia)

NO_x EF_{≤25% load,i} = the NO_x emissions factor, in lb/gal, for each emissions unit, i, when operating at less than or equal to 25% load as provided in Table 1 below based on the manufacturer's design specifications in the permit application:

Table 1: NO_x Emissions Factors for ≤ 25% Load Operations

Emissions Units	Engine Model	Emissions Factor (lb/gal)
P001 through P042	CAT 3516E	0.454
P043 through P126 (Uncontrolled)	CAT 3516E	0.454
	CAT C175-16	0.167
	MTU 20V4000G94S	0.474
P064 through P126 (Controlled)	CAT 3516E	0.116
	CAT C175-16	0.0434
	MTU 20V4000G94S	0.123
P127 through P129	CAT 3512C	0.313
	CAT C32B	0.296

Q_{≤25% load,i} = the number of gallons of fuel used by each emissions unit, i, while operating at less than or equal to 25% load during the rolling, 12-month period

$\text{NOx EF}_{>25\% \text{ load},i}$ = the NOx emissions factor, in lb/gal, for each emissions unit, i, when operating at more than 25% load as provided in Table 2 below based on the manufacturer's design specifications in the permit application

Table 2: NOx Emissions Factors for > 25% Load Operations

Emissions Units	Engine Model	Emissions Factor (lb/gal)
P001 through P042	CAT 3516E	0.314
P043 through P126 (Uncontrolled)	CAT 3516E	0.314
	CAT C175-16	0.336
	MTU 20V4000G94S	0.298
P064 through P126 (Controlled)	CAT 3516E	0.0314
	CAT C175-16	0.0336
	MTU 20V4000G94S	0.0298
P127 through P129	CAT 3512C	0.301
	CAT C32B	0.336

$Q_{>25\% \text{ load},i}$ = the number of gallons of fuel used by each emissions unit, i, while operating at more than 25% load during the rolling, 12-month period

$\text{CO EF}_{\leq 25\% \text{ load},i}$ = the CO emissions factor, in lb/gal, for each emissions unit, i, when operating at less than or equal to 25% load as provided in Table 3 below based on the manufacturer's design specifications in the permit application

Table 3: CO Emissions Factors for $\leq 25\%$ Load Operations

Emissions Units	Engine Model	Emissions Factor (lb/gal)
P001 through P042	CAT 3516E	0.166
P043 through P126	CAT 3516E	0.166
	CAT C175-16	0.0910
	MTU 20V4000G94S	0.311
P127 through P129	CAT 3512C	0.210
	CAT C32B	0.201

$\text{CO EF}_{>25\% \text{ load},i}$ = the CO emissions factor, in lb/gal, for each emissions unit, i, when operating at more than 25% load as provided in Table 4 below based on the manufacturer's design specifications in the permit application

Table 4: CO Emissions Factors for > 25% Load Operations

Emissions Units	Engine Model	Emissions Factor (lb/gal)
P001 through P042	CAT 3516E	0.0584
P043 through P126	CAT 3516E	0.0584
	CAT C175-16	0.0468
	MTU 20V4000G94S	0.0496
P127 through P129	CAT 3512C	0.0625
	CAT C32B	0.131

$PM_{10} EF_{\leq 25\% \text{ load}, i} = PM_{2.5} EF_{\leq 25\% \text{ load}, i}$ = the PM_{10} and $PM_{2.5}$ emissions factor, in lb/gal, for each emissions unit, i, when operating at less than or equal to 25% load as provided in Table 5 below based on the manufacturer's design specifications in the permit application

Table 5: PM_{10} and $PM_{2.5}$ Emissions Factors for $\leq 25\%$ Load Operations

Emissions Units	Engine Model	Emissions Factor (lb/gal)
P001 through P042	CAT 3516E	0.0081
P043 through P126	CAT 3516E	0.0081
	CAT C175-16	0.0076
	MTU 20V4000G94S	0.059
P127 through P129	CAT 3512C	0.013
	CAT C32B	0.0079

$PM_{10} EF_{> 25\% \text{ load}, i} = PM_{2.5} EF_{> 25\% \text{ load}, i}$ = the PM_{10} and $PM_{2.5}$ emissions factor, in lb/gal, for each emissions unit, i, when operating at more than 25% load as provided in Table 6 below based on the manufacturer's design specifications in the permit application

Table 6: PM_{10} and $PM_{2.5}$ Emissions Factors for $> 25\%$ Load Operations

Emissions Units	Engine Model	Emissions Factor (lb/gal)
P001 through P042	CAT 3516E	0.0067
P043 through P126	CAT 3516E	0.0067
	CAT C175-16	0.0034
	MTU 20V4000G94S	0.0062
P127 through P129	CAT 3512C	0.0068
	CAT C32B	0.0084

$\text{NH}_3 \text{ EF}_{\leq 25\% \text{ load}, i}$ = the ammonia emissions factor, in lb/gal, for each emissions unit, i, when operating at less than or equal to 25% load as provided in Table 7 below based on the manufacturer's design specifications in the permit application

Table 7: Ammonia Emissions Factors for $\leq 25\%$ Load Operations

Emissions Units	Engine Model	Emissions Factor (lb/gal)
P064 through P126	CAT 3516E	0.0015
	CAT C175-16	0.0020
	MTU 20V4000G94S	0.0013

$\text{NH}_3 \text{ EF}_{> 25\% \text{ load}, i}$ = the ammonia emissions factor, in lb/gal, for each emissions unit, i, when operating at more than 25% load as provided in Table 8 below based on the manufacturer's design specifications in the permit application

Table 8: Ammonia Emissions Factors for $> 25\%$ Load Operations

Emissions Units	Engine Model	Emissions Factor (lb/gal)
P064 through P126	CAT 3516E	0.0012
	CAT C175-16	0.0014
	MTU 20V4000G94S	0.0013

- (2) The NO_x emissions from this emissions unit shall be vented to an SCR that is designed to achieve a minimum 90 percent NO_x control efficiency at all times when the engine is operating at or above 25 percent load and the catalyst bed temperature of 500 degrees F is achieved.
 - (3) 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 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).
- 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 records of the following information for each period time when the emissions unit was in operation:
 - a. the date and total number of hours the engine was in operation;
 - b. the reason the engine was in operation (e.g., emergency operation, non-emergency operation, maintenance checks and readiness testing); and
 - c. what classified the operation as an emergency, if applicable.
- (6) The permittee shall maintain monthly records of the rolling, 12-month summation of the number of hours the engine was in operation.
- (7) The permittee shall maintain documentation on the manufacturer's performance data including emission rates by load percentage, for the specific make and model of engine installed. The permittee shall also maintain documentation on the parameter(s) used (RMPs, fuel flow, etc.), to measure the load on each engine.
- (8) The permittee shall maintain monthly records of the following information:
 - a. the number of gallons of fuel used by each emissions unit for P001 through P129 while operating at less than or equal to 25% load for each operating scenario (i.e., controlled or uncontrolled);
 - b. the number of gallons of fuel used by each emissions unit for P001 through P129 while operating at greater than 25% load for each operating scenario (i.e., controlled or uncontrolled);
 - c. the rolling, 12-month summation of NO_x emissions from emissions units P001 through P129, combined, in tons;
 - d. the rolling, 12-month summation of CO emissions from emissions units P001 through P129, combined, in tons;
 - e. the rolling, 12-month summation of PM₁₀ emissions from emissions units P001 through P129, combined, in tons;
 - f. the rolling, 12-month summation of PM_{2.5} emissions from emissions units P001 through P129, combined, in tons; and
 - g. the rolling, 12-month summation of ammonia emissions from emissions units P064 through P126, combined, in tons;

The rolling, 12-month summation of NO_x, CO, PM₁₀, PM_{2.5}, and ammonia emissions shall be calculated using emissions factors based on the manufacturer's technical specifications and/or AP-42. The emissions factors that shall be used are specified in Tables 1 through 8 above.

- (9) The permittee shall install, operate, and maintain each SCR system in accordance with the manufacturer's recommendations, instructions, and/or operating manual, with any modifications deemed necessary by the permittee. The permittee shall maintain the SCR catalyst bed temperature below the maximum temperature established by the manufacturer.
- (10) The permittee shall maintain documentation of the manufacturer's recommendations, instructions, and/or operating manual for the SCR system, along with documentation of any modifications deemed necessary by the permittee. These documents shall be maintained at the facility and shall be made available to the Ohio EPA, DO/LAA upon request.
- (11) The permittee shall maintain the following information for maintenance and repairs performed on each SCR system:
 - a. the date of the maintenance and/or repair;
 - b. a description of the maintenance and/or repairs performed; and
 - c. the name of person(s) who performed the maintenance and/or repair.
- (12) The permittee shall properly install, operate, and maintain equipment that continuously monitors and records [i.e., completes a minimum of one cycle of operation (sampling, analyzing, and data recording) for each successive 15-minute period] the following information for each SCR system at all times when the associated engine is in operation:
 - a. the urea/ammonia injection rate or the NO_x concentration at the SCR catalyst bed exhaust; and
 - b. the temperature of the SCR catalyst bed.

This information shall be correlated to the fuel flow meter to determine the amount of fuel consumed during each operating scenario (i.e., controlled or uncontrolled). Each monitoring device shall be equipped with a mechanism to detect parameters that exceed manufacturer's recommended thresholds and trigger an alarm to operators when the control system is not operating within the manufacturer's recommended conditions.

e) **Reporting Requirements**

- (1) The permittee shall submit to Ohio EPA, DO/LAA 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 quarterly deviation (excursion) reports that identify:
 - a. each period of time (start time and date, and end time and date) when an SCR catalyst bed temperature was at or above 500 degrees F and the NO_x emissions were not controlled by the SCR system;
 - b. all exceedances of the rolling, 12-month fuel limitation specified in c)(1) above;
 - c. all exceedances of the rolling, 12-month NO_x emissions limitation;
 - d. all exceedances of the rolling, 12-month CO emissions limitation;
 - e. all exceedances of the rolling, 12-month PM₁₀ emissions limitation;
 - f. all exceedances of the rolling, 12-month PM_{2.5} emissions limitation;

- g. all exceedances of the rolling, 12-month ammonia emissions limitation;
- h. the probable cause of each deviation (excursion);
- i. any corrective actions that were taken to remedy the deviations (excursions) or prevent future deviations (excursions); and
- j. 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 appropriate Ohio EPA DO/LAA.

f) **Testing Requirements**

- (1) The permittee shall conduct, or have conducted, emissions testing for emissions units P064 through P126 in accordance with the following requirements:
 - a. The emissions testing shall be conducted on five of the identical emissions units within 180 days after initial startup. If more than one model of engine is installed, then the emissions testing shall be conducted on five of each model installed.
 - b. The emissions testing shall be conducted to verify the controlled emissions factors identified in Table 2 above for NO_x.
 - c. The emissions testing shall be conducted in accordance with Methods 1 through 4 and 7E of 40 CFR Part 60, Appendix A. Alternative U.S. EPA approved test methods may be used with prior approval from the Ohio EPA.
 - d. During the emissions testing, the EU shall be operated under operational conditions approved in advance by the appropriate Ohio DO/LAA. Operational conditions that may need to be approved include, but are not limited to, the production rate, the type of material processed, material make-up (solvent content, etc.) or control equipment operational limitations (burner temperature, precipitator voltage, etc.). In general, testing shall be done under worst case conditions expected during the life of the permit. As part of the information provided in the Intent to Test (ITT) notification form described below, the permittee shall provide a description of the EU operational conditions they will meet during the emissions testing and describe why they believe worst case operating conditions will be met. Prior to conducting the test(s), the permittee shall confirm with the appropriate Ohio EPA DO/LAA that the proposed operating conditions constitute worst case. Failure to test under the approved conditions may result in Ohio EPA not accepting the test results as a demonstration of compliance.
 - e. Not later than 30 days prior to the proposed test date(s), the permittee shall submit an ITT notification to the appropriate Ohio EPA DO/LAA. The ITT notification shall describe in detail the proposed test methods and procedures, the EU operating parameters, the time(s) and date(s) of the test(s) and the person(s) who will be conducting the test(s). Failure to submit such notification for review and approval prior to the test(s) may result in the Ohio EPA DO/LAA's refusal to accept the results of the emission test(s).

- f. Personnel from the appropriate Ohio EPA DO/LAA shall be permitted to witness the test(s), examine the testing equipment and acquire data and information necessary to ensure that the operation of the EU and the testing procedures provide a valid characterization of the emissions from the EU and/or the performance of the control equipment.
 - g. A comprehensive written report on the results of the emissions test(s) shall be signed by the person(s) responsible for the tests and submitted to the appropriate Ohio EPA DO/LAA within 60 days following completion of the test(s). The permittee may request additional time for the submittal of the written report, where warranted, with prior approval from the appropriate Ohio EPA DO/LAA.
- (2) 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 percent opacity as a six-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 which specifies not-to-exceed PM emissions rates.

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 P129, combined, shall not exceed 245.0 tons per rolling, 12-month period.

CO emissions from emissions units P001 through P129, combined, shall not exceed 229.0 tons per rolling, 12-month period.

PM₁₀ emissions from emissions units P001 through P129, combined, shall not exceed 14.9 tons per rolling, 12-month period.

PM_{2.5} emissions from emissions units P001 through P129, combined, shall not exceed 9.9 tons per rolling, 12-month period.

Ammonia emissions from emissions units P064 through P126, combined, shall not exceed 0.9 tons per rolling, 12-month period.

Applicable Compliance Method

Compliance with these emissions limitations shall be determined through the monitoring and recordkeeping requirements specified in d) 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;

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.

3. Emissions Unit Group - 1,500 kWe Gensets: P127, P128, and P129

EU ID	Operations, Property and/or Equipment Description
P127	1,500 kWe CAT 3512C or CAT C32B Emergency Generator Engine, GEN H-1
P128	1,500 kWe CAT 3512C or CAT C32B Emergency Generator Engine, GEN H-2
P129	1,500 kWe CAT 3512C or CAT C32B Emergency Generator Engine, GEN H-3

- a) The following emissions unit terms and conditions are federally enforceable with the exception of those listed below which are enforceable under state law only.

(1) See b)(1)f. 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 percent opacity as a six-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)(a)(ii)	The BAT requirements under OAC rule 3745-31-05(A)(3) do not apply to the NO _x , 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.
e.	OAC rule 3745-31-05(D) [Federally enforceable limitations to avoid NSR]	NO _x emissions from emissions units P001 through P129, combined, shall not exceed 245.0 tons per rolling, 12-month period. CO emissions from emissions units P001 through P129, combined, shall not exceed 229.0 tons per rolling, 12-month period. See c)(1) below.



f.	OAC rule 3745-31-05(E) [State-only enforceable limitation to avoid modeling]	PM ₁₀ emissions from emissions units P001 through P129, combined, shall not exceed 14.9 tons per rolling, 12-month period. PM _{2.5} emissions from emissions units P001 through P129, combined, shall not exceed 9.9 tons per rolling, 12-month period. See c)(1) below.
g.	OAC rule 3745-110-03	See b)(2)e. below.
h.	40 CFR Part 60, Subpart IIII 40 CFR 60.4202(a)(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(a)(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 ULSD that meets the following conditions:
 - 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. For the purpose of meeting the exemption in OAC rule 3745-110-03(K)(2), 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 maximum fuel usage for emissions units P001 through P129 shall be limited by the following formulas for each rolling, 12-month period:

245.0 tons of NO_x ≥

$$\sum_{i=P001}^{P129} \left[\frac{(\text{NO}_x \text{ EF}_{\leq 25\% \text{ load},i})(Q_{\leq 25\% \text{ load},i}) + (\text{NO}_x \text{ EF}_{> 25\% \text{ load},i})(Q_{> 25\% \text{ load},i})}{2,000 \frac{\text{lb}}{\text{ton}}} \right]$$

229.0 tons of CO ≥

$$\sum_{i=P001}^{P129} \left[\frac{(\text{CO EF}_{\leq 25\% \text{ load},i})(Q_{\leq 25\% \text{ load},i}) + (\text{CO EF}_{> 25\% \text{ load},i})(Q_{> 25\% \text{ load},i})}{2,000 \frac{\text{lb}}{\text{ton}}} \right]$$

14.9 tons of PM₁₀ ≥

$$\sum_{i=P001}^{P129} \left[\frac{(\text{PM}_{10} \text{ EF}_{\leq 25\% \text{ load},i})(Q_{\leq 25\% \text{ load},i}) + (\text{PM}_{10} \text{ EF}_{> 25\% \text{ load},i})(Q_{> 25\% \text{ load},i})}{2,000 \frac{\text{lb}}{\text{ton}}} \right]$$

9.9 tons of PM_{2.5} ≥

$$\sum_{i=P001}^{P129} \left[\frac{(\text{PM}_{2.5} \text{ EF}_{\leq 25\% \text{ load},i})(Q_{\leq 25\% \text{ load},i}) + (\text{PM}_{2.5} \text{ EF}_{> 25\% \text{ load},i})(Q_{> 25\% \text{ load},i})}{2,000 \frac{\text{lb}}{\text{ton}}} \right]$$

where:

i = each emissions unit (P001 through P129)

NO_x EF_{≤25% load,i} = the NO_x emissions factor, in lb/gal, for each emissions unit, i, when operating at less than or equal to 25% load as provided in Table 1 below based on the manufacturer's design specifications in the permit application:

Table 1: NO_x Emissions Factors for ≤ 25% Load Operations

Emissions Units	Engine Model	Emissions Factor (lb/gal)
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P001 through P042	CAT 3516E	0.454
P043 through P126 (Uncontrolled)	CAT 3516E	0.454
	CAT C175-16	0.167
	MTU 20V4000G94S	0.474
P064 through P126 (Controlled)	CAT 3516E	0.116
	CAT C175-16	0.0434
	MTU 20V4000G94S	0.123
P127 through P129	CAT 3512C	0.313
	CAT C32B	0.296

$Q_{\leq 25\% \text{ load}, i}$ = the number of gallons of fuel used by each emissions unit, i, while operating at less than or equal to 25% load during the rolling, 12-month period

$\text{NOx EF}_{>25\% \text{ load}, i}$ = the NOx emissions factor, in lb/gal, for each emissions unit, i, when operating at more than 25% load as provided in Table 2 below based on the manufacturer's design specifications in the permit application

Table 2: NOx Emissions Factors for > 25% Load Operations

Emissions Units	Engine Model	Emissions Factor (lb/gal)
P001 through P042	CAT 3516E	0.314
P043 through P126 (Uncontrolled)	CAT 3516E	0.314
	CAT C175-16	0.336
	MTU 20V4000G94S	0.298
P064 through P126 (Controlled)	CAT 3516E	0.0314
	CAT C175-16	0.0336
	MTU 20V4000G94S	0.0298
P127 through P129	CAT 3512C	0.301
	CAT C32B	0.336

$Q_{>25\% \text{ load}, i}$ = the number of gallons of fuel used by each emissions unit, i, while operating at more than 25% load during the rolling, 12-month period

$\text{CO EF}_{\leq 25\% \text{ load}, i}$ = the CO emissions factor, in lb/gal, for each emissions unit, i, when operating at less than or equal to 25% load as provided in Table 3 below based on the manufacturer's design specifications in the permit application

Table 3: CO Emissions Factors for ≤ 25% Load Operations

Emissions Units	Engine Model	Emissions Factor (lb/gal)
P001 through P042	CAT 3516E	0.166
P043 through P126	CAT 3516E	0.166
	CAT C175-16	0.0910
	MTU 20V4000G94S	0.311
P127 through P129	CAT 3512C	0.210
	CAT C32B	0.201

$CO\ EF_{>25\% \text{ load},i} =$ the CO emissions factor, in lb/gal, for each emissions unit, i, when operating at more than 25% load as provided in Table 4 below based on the manufacturer's design specifications in the permit application

Table 4: CO Emissions Factors for > 25% Load Operations

Emissions Units	Engine Model	Emissions Factor (lb/gal)
P001 through P042	CAT 3516E	0.0584
P043 through P126	CAT 3516E	0.0584
	CAT C175-16	0.0468
	MTU 20V4000G94S	0.0496
P127 through P129	CAT 3512C	0.0625
	CAT C32B	0.131

$PM_{10}\ EF_{\leq 25\% \text{ load},i} = PM_{2.5}\ EF_{\leq 25\% \text{ load},i} =$ the PM_{10} and $PM_{2.5}$ emissions factor, in lb/gal, for each emissions unit, i, when operating at less than or equal to 25% load as provided in Table 5 below based on the manufacturer's design specifications in the permit application

Table 5: PM_{10} and $PM_{2.5}$ Emissions Factors for $\leq 25\%$ Load Operations

Emissions Units	Engine Model	Emissions Factor (lb/gal)
P001 through P042	CAT 3516E	0.0081
P043 through P126	CAT 3516E	0.0081
	CAT C175-16	0.0076
	MTU 20V4000G94S	0.059
P127 through P129	CAT 3512C	0.013
	CAT C32B	0.0079

$PM_{10} EF_{>25\% load,i} = PM_{2.5} EF_{>25\% load,i}$ = the PM_{10} and $PM_{2.5}$ emissions factor, in lb/gal, for each emissions unit, i, when operating at more than 25% load as provided in Table 6 below based on the manufacturer's design specifications in the permit application

Table 6: PM_{10} and $PM_{2.5}$ Emissions Factors for > 25% Load Operations

Emissions Units	Engine Model	Emissions Factor (lb/gal)
P001 through P042	CAT 3516E	0.0067
P043 through P126	CAT 3516E	0.0067
	CAT C175-16	0.0034
	MTU 20V4000G94S	0.0062
P127 through P129	CAT 3512C	0.0068
	CAT C32B	0.0084

- (2) 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 III; 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 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).

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 records of the following information for each period time when the emissions unit was in operation:
 - a. the date and total number of hours the engine was in operation;
 - b. the reason the engine was in operation (e.g., emergency operation, non-emergency operation, maintenance checks and readiness testing); and
 - c. what classified the operation as an emergency, if applicable.
- (6) The permittee shall maintain monthly records of the rolling, 12-month summation of the number of hours the engine was in operation.
- (7) The permittee shall maintain documentation on the manufacturer's performance data including emission rates by load percentage, for the specific make and model of engine installed. The permittee shall also maintain documentation on the parameter(s) used (RMPs, fuel flow, etc.), to measure the load on each engine.
- (8) The permittee shall maintain monthly records of the following information:
 - a. the number of gallons of fuel used by each emissions unit for P001 through P129 while operating at less than or equal to 25% load for each operating scenario (i.e., controlled or uncontrolled);
 - b. the number of gallons of fuel used by each emissions unit for P001 through P129 while operating at greater than 25% load for each operating scenario (i.e., controlled or uncontrolled);
 - c. the rolling, 12-month summation of NO_x emissions from emissions units P001 through P129, combined, in tons;
 - d. the rolling, 12-month summation of CO emissions from emissions units P001 through P129, combined, in tons;
 - e. the rolling, 12-month summation of PM₁₀ emissions from emissions units P001 through P129, combined, in tons; and
 - f. the rolling, 12-month summation of PM_{2.5} emissions from emissions units P001 through P129, combined, in tons.

The rolling, 12-month summation of NO_x, CO, PM₁₀, and PM_{2.5} emissions shall be calculated using emissions factors based on the manufacturer's technical specifications and/or AP-42. The emissions factors that shall be used are specified in Tables 1 through 6 above.

e) Reporting Requirements

- (1) The permittee shall submit to Ohio EPA, DO/LAA 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 quarterly deviation (excursion) reports that identify:
 - a. all exceedances of the rolling, 12-month fuel limitation specified in c)(1) above;
 - b. all exceedances of the rolling, 12-month NO_x emissions limitation;
 - c. all exceedances of the rolling, 12-month CO emissions limitation;
 - d. all exceedances of the rolling, 12-month PM₁₀ emissions limitation;
 - e. all exceedances of the rolling, 12-month PM_{2.5} emissions limitation;

- f. the probable cause of each deviation (excursion);
- g. any corrective actions that were taken to remedy the deviations (excursions) or prevent future deviations (excursions); and
- h. 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 appropriate Ohio EPA DO/LAA.

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 percent opacity as a six-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 which specifies not-to-exceed PM emissions rates.

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 P129, combined, shall not exceed 245.0 tons per rolling, 12-month period.

CO emissions from emissions units P001 through P129, combined, shall not exceed 229.0 tons per rolling, 12-month period.

PM₁₀ emissions from emissions units P001 through P129, combined, shall not exceed 14.9 tons per rolling, 12-month period.

PM_{2.5} emissions from emissions units P001 through P129, combined, shall not exceed 9.9 tons per rolling, 12-month period.

Applicable Compliance Method

Compliance with these emissions limitations shall be determined through the monitoring and recordkeeping requirements specified in d) 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;

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.