



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

09/12/2023

Certified Mail

Ms. Rebekah Flory
Montauk Innovations LLC
1101 Beech Rd SW
New Albany, OH 43054

RE: DRAFT AIR POLLUTION PERMIT-TO-INSTALL
Facility ID: 0145000570
Permit Number: P0134570
Permit Type: Initial Installation
County: Licking

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
No	SYNTHETIC MINOR TO AVOID MAJOR GHG

Dear Permit Holder:

A draft of the Ohio Administrative Code (OAC) Chapter 3745-31 Air Pollution Permit-to-Install for the referenced facility has been issued for the emissions unit(s) listed in the Authorization section of the enclosed draft permit. This draft action is not an authorization to begin construction or modification of your emissions unit(s). The purpose of this draft is to solicit public comments on the permit. A public notice will appear in the Ohio Environmental Protection Agency (EPA) Weekly Review and the local newspaper, The Newark Advocate. A copy of the public notice and the draft permit are enclosed. This permit can be accessed electronically on the Ohio EPA document search webpage: <https://epa.ohio.gov/help-center/edocument-search/edocument-search>. Comments will be accepted as a marked-up copy of the draft permit or in narrative format. Any comments must be sent to the following:

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

and Ohio EPA DAPC, Central District Office
50 West Town St., 5th Floor
P.O. Box 1049
Columbus, OH 43216-1049

Comments and/or a request for a public hearing will be accepted within 30 days of the date the notice is published in the newspaper. You will be notified in writing if a public hearing is scheduled. A decision on issuing a final permit-to-install will be made after consideration of comments received and oral testimony if a public hearing is conducted. Any permit fee that will be due upon issuance of a final Permit-to-Install is indicated in the Authorization section. Please do not submit any payment now. If you have any questions, please contact Ohio EPA DAPC, Central District Office at (614)728-3778.

Sincerely,

Robert Hodanbosi
Chief, Division of Air Pollution Control

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

PUBLIC NOTICE

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

Draft Air Pollution Permit-to-Install Initial Installation
Montauk Innovations LLC
intersection of Morse Rd and Beech Rd SW
New Albany, OH 43054

ID#: P0134570
Date of Action: 09/12/2023
Permit Desc: PTI for 132 emergency generators burning ultra-low sulfur diesel with federally enforceable limitations for NOx and CO to remain below New Source Review major source thresholds.

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

Permit Strategy Write-Up

1. Check all that apply:

☒ Synthetic Minor Determination

☐ Netting Determination

2. Source Description:

Montauk Innovations LLC (Montauk) is requesting to install 132 new stationary emergency generators (emissions units P152 through P283) in three new buildings at their data center in New Albany, Ohio. The emergency generators will burn only ultra-low sulfur diesel (ULSD) and are divided into two groups based on their size. Group 6 consists of 102 emergency generators, and Group 7 consists of 30 emergency generators. As part of this project, Montauk will also be installing fuel storage tanks (permit exempt), 36 cooling towers (de minimis), and an emergency fire pump (permit-by-rule). The facility currently is permitted to install and operate 150 emergency generators. They also operate a second emergency fire pump (permit-by-rule), cooling towers (de minimis), fuel storage tanks (permit exempt), and natural gas-fired HVAC equipment (permit exempt).

3. Facility Emissions and Attainment Status:

Montauk is located in Franklin and Licking Counties which are in full attainment for all National Ambient Air Quality Standards.

The unrestricted potential-to-emit for the 282 emergency generators, cooling towers, fire pumps, diesel storage tanks, and natural gas-fired HVAC equipment is provided below in Table 1. The potential-to-emit for the emergency generators and emergency fire pumps was calculated assuming each engine operates 500 hours per year.

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

	NO _x	CO	VOC	PM ₁₀ /PM _{2.5}	SO ₂
Group 1 emergency generators	1,231.7	82.8	27.8	7.69	0.79
Group 2 emergency generators	146.9	6.3	2.5	1.48	0.11
Group 3 emergency generator	0.03	0.03	0.009	0.02	0
Group 4 emergency generators	608.6	103.5	20.2	7.61	0.38
Group 5 emergency generators	96.6	13.8	3.5	0.99	0.07
Group 6 emergency generators	1,969.8	310.4	60.48	29.7	1.02
Group 7 emergency generators	283.3	41.9	11.86	3.63	0.19
Cooling towers	0	0	0	3.09	0
Emergency Fire Pump #1	0.52	0.3	0.13	0.03	0
Emergency Fire Pump #2	1.4	0.3	0.11	0.10	5.7E-4
Diesel storage tanks	0	0	1.3	0	0
HVAC equipment	4.62	3.88	0.25	0.35	0.03
Total:	4,343	563	128	55	2.6

Montauk currently operates under federally enforceable NO_x and CO emissions limitations to avoid classification as a major source under NSR. The Groups 1 through 5 emergency generators are currently limited to 243.9 tons of NO_x and 128.4 tons of CO per rolling, 12-month period. Montauk is requesting to combine the new emergency generators (Groups 6 and 7) under the existing federally enforceable limitations. To account for NO_x emissions from the new Emergency Fire Pump #2, the federally enforceable NO_x emissions limitation is being reduced from 243.9 to 242.5 tons per rolling, 12-month period. CO emissions from all emergency generators (Groups 1 through 7) will continue to be limited to 128.4 tons per rolling, 12-month period. The NO_x and CO emissions from the emergency generators are limited by restricting the usage of ULSD in emissions units P001 through P062 and P065 through P283 (Groups 1, 2, 4, 5, 6, and 7), and restricting the hours of operation for emissions unit P063 (a natural gas-fired emergency generator, Group 3). The appropriate operational restrictions and monitoring, recordkeeping, reporting, and testing requirements have been established in order to demonstrate that the applicable NSR thresholds are not exceeded.

Montauk previously modeled their NO₂ and CO emissions to demonstrate that the facility will not exceed the Ohio acceptable incremental impact levels for the annual NO₂ standard and the 1-hour and 8-hour CO standards. Even though Montauk is not requesting an increase to the allowable emissions of NO_x or CO, their previous air dispersion modeling was updated to demonstrate that the emissions from the installation of the new sources will remain below the Ohio acceptable incremental impact levels. The NO₂ and CO modeling was performed using AERMOD and has been determined to be acceptable.

Montauk is a minor source of HAP emissions.

4. Source Emissions:

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

Emissions units P152 through P283 are exempt from air toxics modeling pursuant to ORC 3704.03(F)(4)(f)(i) because they are “air contaminant sources that emit air contaminants solely from the combustion of fossil fuels.”

The potential to emit for each pollutant from each emergency generator is less than 10 tons per year except for the NO_x emissions from the Group 6 emergency generators. Therefore, only the NO_x emissions from the Group 6 emergency generators are subject to best available technology (BAT). BAT has been established in accordance with Section 1 of Ohio EPA’s February 7, 2014 BAT guidance. The Group 6 emergency generators are subject to the area source MACT for stationary reciprocating internal combustion engines (40 CFR Part 63, Subpart ZZZZ). Pursuant to 40 CFR Part 63, Subpart ZZZZ, the emergency generators must meet the requirements of 40 CFR Part 60, Subpart IIII. 40 CFR Part 60, Subpart IIII establishes an emissions limitation NO_x. Therefore, BAT for NO_x has been established as the requirements of 40 CFR Part 63, Subpart ZZZZ.

5. Conclusion:

The terms and conditions contained within P0134570 are sufficient to ensure compliance with all state and federal regulations and are consistent with current Division of Air Pollution Control policy and guidance.



DRAFT

**Division of Air Pollution Control
Permit-to-Install
for
Montauk Innovations LLC**

Facility ID:	0145000570
Permit Number:	P0134570
Permit Type:	Initial Installation
Issued:	09/12/2023
Effective:	To be entered upon final issuance



Division of Air Pollution Control
Permit-to-Install
for
Montauk Innovations LLC

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Draft Permit-to-Install
Montauk Innovations LLC
Permit Number: P0134570
Facility ID: 0145000570

Effective Date: To be entered upon final issuance

Authorization

Facility ID: 0145000570
Facility Description:
Permit Number: P0134570
Permit Description: PTI for 132 emergency generators burning ultra-low sulfur diesel with federally enforceable limitations for NOx and CO to remain below New Source Review major source thresholds.
Permit Type: Permit-To-Install
Permit Fee: \$3,300.00 *DO NOT send payment at this time, subject to change before final issuance*
Issue Date: 09/12/2023
Effective Date: To be entered upon final issuance

This document constitutes issuance to:

Montauk Innovations LLC
intersection of Morse Rd and Beech Rd SW
New Albany, OH 43054

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

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

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

The above named entity is hereby granted 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

Anne M. Vogel
Director



Authorization (continued)

Permit Number: P0134570
Permit Description: PTI for 132 emergency generators burning ultra-low sulfur diesel with federally enforceable limitations for NOx and CO to remain below New Source Review major source thresholds.

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

Group Name: Group 6 Emergency Generators

Emissions Unit ID:	P152
Company Equipment ID:	GEN 5_1
Superseded Permit Number:	
General Permit Category and Type:	Not Applicable
Emissions Unit ID:	P153
Company Equipment ID:	GEN 5_2
Superseded Permit Number:	
General Permit Category and Type:	Not Applicable
Emissions Unit ID:	P154
Company Equipment ID:	GEN 5_3
Superseded Permit Number:	
General Permit Category and Type:	Not Applicable
Emissions Unit ID:	P155
Company Equipment ID:	GEN 5_4
Superseded Permit Number:	
General Permit Category and Type:	Not Applicable
Emissions Unit ID:	P156
Company Equipment ID:	GEN 5_5
Superseded Permit Number:	
General Permit Category and Type:	Not Applicable
Emissions Unit ID:	P157
Company Equipment ID:	GEN 5_6
Superseded Permit Number:	
General Permit Category and Type:	Not Applicable
Emissions Unit ID:	P158
Company Equipment ID:	GEN 5_7
Superseded Permit Number:	
General Permit Category and Type:	Not Applicable
Emissions Unit ID:	P159
Company Equipment ID:	GEN 5_8
Superseded Permit Number:	
General Permit Category and Type:	Not Applicable
Emissions Unit ID:	P160
Company Equipment ID:	GEN 5_9
Superseded Permit Number:	
General Permit Category and Type:	Not Applicable
Emissions Unit ID:	P161
Company Equipment ID:	GEN 5_10
Superseded Permit Number:	
General Permit Category and Type:	Not Applicable
Emissions Unit ID:	P162
Company Equipment ID:	GEN 5_11
Superseded Permit Number:	

General Permit Category and Type:	Not Applicable
Emissions Unit ID:	P163
Company Equipment ID:	GEN 5_12
Superseded Permit Number:	
General Permit Category and Type:	Not Applicable
Emissions Unit ID:	P164
Company Equipment ID:	GEN 5_13
Superseded Permit Number:	
General Permit Category and Type:	Not Applicable
Emissions Unit ID:	P165
Company Equipment ID:	GEN 5_14
Superseded Permit Number:	
General Permit Category and Type:	Not Applicable
Emissions Unit ID:	P166
Company Equipment ID:	GEN 5_15
Superseded Permit Number:	
General Permit Category and Type:	Not Applicable
Emissions Unit ID:	P167
Company Equipment ID:	GEN 5_16
Superseded Permit Number:	
General Permit Category and Type:	Not Applicable
Emissions Unit ID:	P168
Company Equipment ID:	GEN 5_17
Superseded Permit Number:	
General Permit Category and Type:	Not Applicable
Emissions Unit ID:	P169
Company Equipment ID:	GEN 5_18
Superseded Permit Number:	
General Permit Category and Type:	Not Applicable
Emissions Unit ID:	P170
Company Equipment ID:	GEN 5_19
Superseded Permit Number:	
General Permit Category and Type:	Not Applicable
Emissions Unit ID:	P171
Company Equipment ID:	GEN 5_20
Superseded Permit Number:	
General Permit Category and Type:	Not Applicable
Emissions Unit ID:	P172
Company Equipment ID:	GEN 5_21
Superseded Permit Number:	
General Permit Category and Type:	Not Applicable
Emissions Unit ID:	P173
Company Equipment ID:	GEN 5_22
Superseded Permit Number:	
General Permit Category and Type:	Not Applicable
Emissions Unit ID:	P174
Company Equipment ID:	GEN 5_23
Superseded Permit Number:	
General Permit Category and Type:	Not Applicable
Emissions Unit ID:	P175
Company Equipment ID:	GEN 5_24
Superseded Permit Number:	
General Permit Category and Type:	Not Applicable
Emissions Unit ID:	P176
Company Equipment ID:	GEN 5_25
Superseded Permit Number:	

General Permit Category and Type:	Not Applicable
Emissions Unit ID:	P177
Company Equipment ID:	GEN 5_26
Superseded Permit Number:	
General Permit Category and Type:	Not Applicable
Emissions Unit ID:	P178
Company Equipment ID:	GEN 5_27
Superseded Permit Number:	
General Permit Category and Type:	Not Applicable
Emissions Unit ID:	P179
Company Equipment ID:	GEN 5_28
Superseded Permit Number:	
General Permit Category and Type:	Not Applicable
Emissions Unit ID:	P180
Company Equipment ID:	GEN 5_29
Superseded Permit Number:	
General Permit Category and Type:	Not Applicable
Emissions Unit ID:	P181
Company Equipment ID:	GEN 5_30
Superseded Permit Number:	
General Permit Category and Type:	Not Applicable
Emissions Unit ID:	P182
Company Equipment ID:	GEN 5_31
Superseded Permit Number:	
General Permit Category and Type:	Not Applicable
Emissions Unit ID:	P183
Company Equipment ID:	GEN 5_32
Superseded Permit Number:	
General Permit Category and Type:	Not Applicable
Emissions Unit ID:	P184
Company Equipment ID:	GEN 5_33
Superseded Permit Number:	
General Permit Category and Type:	Not Applicable
Emissions Unit ID:	P185
Company Equipment ID:	GEN 5_34
Superseded Permit Number:	
General Permit Category and Type:	Not Applicable
Emissions Unit ID:	P196
Company Equipment ID:	GEN 6_1
Superseded Permit Number:	
General Permit Category and Type:	Not Applicable
Emissions Unit ID:	P197
Company Equipment ID:	GEN 6_2
Superseded Permit Number:	
General Permit Category and Type:	Not Applicable
Emissions Unit ID:	P198
Company Equipment ID:	GEN 6_3
Superseded Permit Number:	
General Permit Category and Type:	Not Applicable
Emissions Unit ID:	P199
Company Equipment ID:	GEN 6_4
Superseded Permit Number:	
General Permit Category and Type:	Not Applicable
Emissions Unit ID:	P200
Company Equipment ID:	GEN 6_5
Superseded Permit Number:	

General Permit Category and Type:	Not Applicable
Emissions Unit ID:	P201
Company Equipment ID:	GEN 6_6
Superseded Permit Number:	
General Permit Category and Type:	Not Applicable
Emissions Unit ID:	P202
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Superseded Permit Number:	
General Permit Category and Type:	Not Applicable
Emissions Unit ID:	P203
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General Permit Category and Type:	Not Applicable
Emissions Unit ID:	P204
Company Equipment ID:	GEN 6_9
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General Permit Category and Type:	Not Applicable
Emissions Unit ID:	P205
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Superseded Permit Number:	
General Permit Category and Type:	Not Applicable
Emissions Unit ID:	P206
Company Equipment ID:	GEN 6_11
Superseded Permit Number:	
General Permit Category and Type:	Not Applicable
Emissions Unit ID:	P207
Company Equipment ID:	GEN 6_12
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General Permit Category and Type:	Not Applicable
Emissions Unit ID:	P208
Company Equipment ID:	GEN 6_13
Superseded Permit Number:	
General Permit Category and Type:	Not Applicable
Emissions Unit ID:	P209
Company Equipment ID:	GEN 6_14
Superseded Permit Number:	
General Permit Category and Type:	Not Applicable
Emissions Unit ID:	P210
Company Equipment ID:	GEN 6_15
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General Permit Category and Type:	Not Applicable
Emissions Unit ID:	P211
Company Equipment ID:	GEN 6_16
Superseded Permit Number:	
General Permit Category and Type:	Not Applicable
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General Permit Category and Type:	Not Applicable
Emissions Unit ID:	P213
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Emissions Unit ID:	P214
Company Equipment ID:	GEN 6_19
Superseded Permit Number:	

General Permit Category and Type:	Not Applicable
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Company Equipment ID:	GEN 6_20
Superseded Permit Number:	
General Permit Category and Type:	Not Applicable
Emissions Unit ID:	P216
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Superseded Permit Number:	
General Permit Category and Type:	Not Applicable
Emissions Unit ID:	P217
Company Equipment ID:	GEN 6_22
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General Permit Category and Type:	Not Applicable
Emissions Unit ID:	P218
Company Equipment ID:	GEN 6_23
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General Permit Category and Type:	Not Applicable
Emissions Unit ID:	P220
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General Permit Category and Type:	Not Applicable
Emissions Unit ID:	P223
Company Equipment ID:	GEN 6_28
Superseded Permit Number:	
General Permit Category and Type:	Not Applicable
Emissions Unit ID:	P224
Company Equipment ID:	GEN 6_29
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General Permit Category and Type:	Not Applicable
Emissions Unit ID:	P225
Company Equipment ID:	GEN 6_30
Superseded Permit Number:	
General Permit Category and Type:	Not Applicable
Emissions Unit ID:	P226
Company Equipment ID:	GEN 6_31
Superseded Permit Number:	
General Permit Category and Type:	Not Applicable
Emissions Unit ID:	P227
Company Equipment ID:	GEN 6_32
Superseded Permit Number:	
General Permit Category and Type:	Not Applicable
Emissions Unit ID:	P228
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Superseded Permit Number:	

General Permit Category and Type:	Not Applicable
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Emissions Unit ID:	P246
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Emissions Unit ID:	P247
Company Equipment ID:	GEN 7_8
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Emissions Unit ID:	P250
Company Equipment ID:	GEN 7_11
Superseded Permit Number:	
General Permit Category and Type:	Not Applicable
Emissions Unit ID:	P251
Company Equipment ID:	GEN 7_12
Superseded Permit Number:	
General Permit Category and Type:	Not Applicable
Emissions Unit ID:	P252
Company Equipment ID:	GEN 7_13
Superseded Permit Number:	

General Permit Category and Type:	Not Applicable
Emissions Unit ID:	P253
Company Equipment ID:	GEN 7_14
Superseded Permit Number:	
General Permit Category and Type:	Not Applicable
Emissions Unit ID:	P254
Company Equipment ID:	GEN 7_15
Superseded Permit Number:	
General Permit Category and Type:	Not Applicable
Emissions Unit ID:	P255
Company Equipment ID:	GEN 7_16
Superseded Permit Number:	
General Permit Category and Type:	Not Applicable
Emissions Unit ID:	P256
Company Equipment ID:	GEN 7_17
Superseded Permit Number:	
General Permit Category and Type:	Not Applicable
Emissions Unit ID:	P257
Company Equipment ID:	GEN 7_18
Superseded Permit Number:	
General Permit Category and Type:	Not Applicable
Emissions Unit ID:	P258
Company Equipment ID:	GEN 7_19
Superseded Permit Number:	
General Permit Category and Type:	Not Applicable
Emissions Unit ID:	P259
Company Equipment ID:	GEN 7_20
Superseded Permit Number:	
General Permit Category and Type:	Not Applicable
Emissions Unit ID:	P260
Company Equipment ID:	GEN 7_21
Superseded Permit Number:	
General Permit Category and Type:	Not Applicable
Emissions Unit ID:	P261
Company Equipment ID:	GEN 7_22
Superseded Permit Number:	
General Permit Category and Type:	Not Applicable
Emissions Unit ID:	P262
Company Equipment ID:	GEN 7_23
Superseded Permit Number:	
General Permit Category and Type:	Not Applicable
Emissions Unit ID:	P263
Company Equipment ID:	GEN 7_24
Superseded Permit Number:	
General Permit Category and Type:	Not Applicable
Emissions Unit ID:	P264
Company Equipment ID:	GEN 7_25
Superseded Permit Number:	
General Permit Category and Type:	Not Applicable
Emissions Unit ID:	P265
Company Equipment ID:	GEN 7_26
Superseded Permit Number:	
General Permit Category and Type:	Not Applicable
Emissions Unit ID:	P266
Company Equipment ID:	GEN 7_27
Superseded Permit Number:	

General Permit Category and Type:	Not Applicable
Emissions Unit ID:	P267
Company Equipment ID:	GEN 7_28
Superseded Permit Number:	
General Permit Category and Type:	Not Applicable
Emissions Unit ID:	P268
Company Equipment ID:	GEN 7_29
Superseded Permit Number:	
General Permit Category and Type:	Not Applicable
Emissions Unit ID:	P269
Company Equipment ID:	GEN 7_30
Superseded Permit Number:	
General Permit Category and Type:	Not Applicable
Emissions Unit ID:	P270
Company Equipment ID:	GEN 7_31
Superseded Permit Number:	
General Permit Category and Type:	Not Applicable
Emissions Unit ID:	P271
Company Equipment ID:	GEN 7_32
Superseded Permit Number:	
General Permit Category and Type:	Not Applicable
Emissions Unit ID:	P272
Company Equipment ID:	GEN 7_33
Superseded Permit Number:	
General Permit Category and Type:	Not Applicable
Emissions Unit ID:	P273
Company Equipment ID:	GEN 7_34
Superseded Permit Number:	
General Permit Category and Type:	Not Applicable

Group Name: Group 7 Emergency Generators

Emissions Unit ID:	P186
Company Equipment ID:	GEN 5_35
Superseded Permit Number:	
General Permit Category and Type:	Not Applicable
Emissions Unit ID:	P187
Company Equipment ID:	GEN 5_36
Superseded Permit Number:	
General Permit Category and Type:	Not Applicable
Emissions Unit ID:	P188
Company Equipment ID:	GEN 5_37
Superseded Permit Number:	
General Permit Category and Type:	Not Applicable
Emissions Unit ID:	P189
Company Equipment ID:	GEN 5_38
Superseded Permit Number:	
General Permit Category and Type:	Not Applicable
Emissions Unit ID:	P190
Company Equipment ID:	GEN 5_39
Superseded Permit Number:	
General Permit Category and Type:	Not Applicable
Emissions Unit ID:	P191
Company Equipment ID:	GEN 5_40
Superseded Permit Number:	

General Permit Category and Type:	Not Applicable
Emissions Unit ID:	P192
Company Equipment ID:	GEN 5_41
Superseded Permit Number:	
General Permit Category and Type:	Not Applicable
Emissions Unit ID:	P193
Company Equipment ID:	GEN 5_42
Superseded Permit Number:	
General Permit Category and Type:	Not Applicable
Emissions Unit ID:	P194
Company Equipment ID:	GEN 5_43
Superseded Permit Number:	
General Permit Category and Type:	Not Applicable
Emissions Unit ID:	P195
Company Equipment ID:	GEN 5_44
Superseded Permit Number:	
General Permit Category and Type:	Not Applicable
Emissions Unit ID:	P230
Company Equipment ID:	GEN 6_35
Superseded Permit Number:	
General Permit Category and Type:	Not Applicable
Emissions Unit ID:	P231
Company Equipment ID:	GEN 6_36
Superseded Permit Number:	
General Permit Category and Type:	Not Applicable
Emissions Unit ID:	P232
Company Equipment ID:	GEN 6_37
Superseded Permit Number:	
General Permit Category and Type:	Not Applicable
Emissions Unit ID:	P233
Company Equipment ID:	GEN 6_38
Superseded Permit Number:	
General Permit Category and Type:	Not Applicable
Emissions Unit ID:	P234
Company Equipment ID:	GEN 6_39
Superseded Permit Number:	
General Permit Category and Type:	Not Applicable
Emissions Unit ID:	P235
Company Equipment ID:	GEN 6_40
Superseded Permit Number:	
General Permit Category and Type:	Not Applicable
Emissions Unit ID:	P236
Company Equipment ID:	GEN 6_41
Superseded Permit Number:	
General Permit Category and Type:	Not Applicable
Emissions Unit ID:	P237
Company Equipment ID:	GEN 6_42
Superseded Permit Number:	
General Permit Category and Type:	Not Applicable
Emissions Unit ID:	P238
Company Equipment ID:	GEN 6_43
Superseded Permit Number:	
General Permit Category and Type:	Not Applicable
Emissions Unit ID:	P239
Company Equipment ID:	GEN 6_44
Superseded Permit Number:	

General Permit Category and Type:	Not Applicable
Emissions Unit ID:	P274
Company Equipment ID:	GEN 7_35
Superseded Permit Number:	
General Permit Category and Type:	Not Applicable
Emissions Unit ID:	P275
Company Equipment ID:	GEN 7_36
Superseded Permit Number:	
General Permit Category and Type:	Not Applicable
Emissions Unit ID:	P276
Company Equipment ID:	GEN 7_37
Superseded Permit Number:	
General Permit Category and Type:	Not Applicable
Emissions Unit ID:	P277
Company Equipment ID:	GEN 7_38
Superseded Permit Number:	
General Permit Category and Type:	Not Applicable
Emissions Unit ID:	P278
Company Equipment ID:	GEN 7_39
Superseded Permit Number:	
General Permit Category and Type:	Not Applicable
Emissions Unit ID:	P279
Company Equipment ID:	GEN 7_40
Superseded Permit Number:	
General Permit Category and Type:	Not Applicable
Emissions Unit ID:	P280
Company Equipment ID:	GEN 7_41
Superseded Permit Number:	
General Permit Category and Type:	Not Applicable
Emissions Unit ID:	P281
Company Equipment ID:	GEN 7_42
Superseded Permit Number:	
General Permit Category and Type:	Not Applicable
Emissions Unit ID:	P282
Company Equipment ID:	GEN 7_43
Superseded Permit Number:	
General Permit Category and Type:	Not Applicable
Emissions Unit ID:	P283
Company Equipment ID:	GEN 7_44
Superseded Permit Number:	
General Permit Category and Type:	Not Applicable

List of Commonly Used Abbreviations

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

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.8., Air Pollution Nuisance
 - (5) Standard Term and Condition A.9., Reporting Requirements
 - (6) Standard Term and Condition A.10., Applicability
 - (7) Standard Term and Condition A.11.b) through A.11.e), Construction of New Source(s) and Authorization to Install
 - (8) Standard Term and Condition A.14., Public Disclosure
 - (9) 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
 - (10) Standard Term and Condition A.16., Fees
 - (11) 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 District 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 District Office. The written 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. 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 Ohio EPA DAPC, Central District Office 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 District 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 shutdown 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 District 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 District 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 District 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 shutdown 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 fees to the Director of the Ohio EPA in accordance with ORC section 3745.11 and OAC Chapter 3745-78. The permittee shall pay all applicable permit-to-install fees within 30 days after the issuance of any permit-to-install. 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. Unless other arrangements have been approved by the director, all notifications and reports shall be submitted through Ohio EPA's eBusiness Center: Air Services online web portal.
3. The Ohio EPA has determined that this facility operates affected sources that are subject to the requirements of 40 CFR Part 63, Subpart ZZZZ, the National Emission Standards for Hazardous Air Pollutants (NESHAP) for Stationary Reciprocating Internal Combustion Engines. Ohio EPA is not accepting the delegation authority to implement and enforce the area source requirements of this NESHAP standard. The area source requirements of this NESHAP standard are implemented and enforced by U.S. EPA, Region 5. The promulgated version of this NESHAP standard and the 40 CFR Part 63, General Provisions may be accessed via the Internet from the Electronic Code of Federal Regulations (e-CFR) website <http://www.ecfr.gov/> or by contacting the Ohio EPA, Central District Office.

C. Emissions Unit Terms and Conditions

1. Emissions Unit Group - Group 6 Emergency Generators: P152 through P185, P196 through P229, and P240 through P273

EU ID	Company Equipment ID
P152	GEN 5_1
P153	GEN 5_2
P154	GEN 5_3
P155	GEN 5_4
P156	GEN 5_5
P157	GEN 5_6
P158	GEN 5_7
P159	GEN 5_8
P160	GEN 5_9
P161	GEN 5_10
P162	GEN 5_11
P163	GEN 5_12
P164	GEN 5_13
P165	GEN 5_14
P166	GEN 5_15
P167	GEN 5_16
P168	GEN 5_17
P169	GEN 5_18
P170	GEN 5_19
P171	GEN 5_20
P172	GEN 5_21
P173	GEN 5_22
P174	GEN 5_23
P175	GEN 5_24
P176	GEN 5_25
P177	GEN 5_26
P178	GEN 5_27
P179	GEN 5_28
P180	GEN 5_29
P181	GEN 5_30
P182	GEN 5_31
P183	GEN 5_32
P184	GEN 5_33
P185	GEN 5_34
P196	GEN 6_1
P197	GEN 6_2
P198	GEN 6_3
P199	GEN 6_4
P200	GEN 6_5
P201	GEN 6_6

EU ID	Company Equipment ID
P213	GEN 6_18
P214	GEN 6_19
P215	GEN 6_20
P216	GEN 6_21
P217	GEN 6_22
P218	GEN 6_23
P219	GEN 6_24
P220	GEN 6_25
P221	GEN 6_26
P222	GEN 6_27
P223	GEN 6_28
P224	GEN 6_29
P225	GEN 6_30
P226	GEN 6_31
P227	GEN 6_32
P228	GEN 6_33
P229	GEN 6_34
P240	GEN 7_1
P241	GEN 7_2
P242	GEN 7_3
P243	GEN 7_4
P244	GEN 7_5
P245	GEN 7_6
P246	GEN 7_7
P247	GEN 7_8
P248	GEN 7_9
P249	GEN 7_10
P250	GEN 7_11
P251	GEN 7_12
P252	GEN 7_13
P253	GEN 7_14
P254	GEN 7_15
P255	GEN 7_16
P256	GEN 7_17
P257	GEN 7_18
P258	GEN 7_19
P259	GEN 7_20
P260	GEN 7_21
P261	GEN 7_22
P262	GEN 7_23

EU ID	Company Equipment ID
P202	GEN 6_7
P203	GEN 6_8
P204	GEN 6_9
P205	GEN 6_10
P206	GEN 6_11
P207	GEN 6_12
P208	GEN 6_13
P209	GEN 6_14
P210	GEN 6_15
P211	GEN 6_16
P212	GEN 6_17

EU ID	Company Equipment ID
P263	GEN 7_24
P264	GEN 7_25
P265	GEN 7_26
P266	GEN 7_27
P267	GEN 7_28
P268	GEN 7_29
P269	GEN 7_30
P270	GEN 7_31
P271	GEN 7_32
P272	GEN 7_33
P273	GEN 7_34

- 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) None.

- 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) [BAT for NO _x]	The Best Available Technology (BAT) requirements established pursuant to this rule are equivalent to the requirements for NO _x emissions in 40 CFR Part 63, Subpart ZZZZ. See b)(1)h., b)(1)j., b)(2)a. through b)(2)c. below.
e.	OAC rule 3745-31-05(A)(3)(a)(ii)	The BAT requirements under OAC rule 3745-31-05(A)(3) do not apply to the CO, VOC, PM ₁₀ , PM _{2.5} and SO ₂ emissions from this air contaminant source since the potentials to emit are less than 10 tons per year.

	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
f.	OAC rule 3745-31-05(D) [Federally enforceable limitations to avoid NSR]	The NO _x emissions from emissions units P001 through P063 and P065 through P283 combined shall not exceed 242.5 tons per rolling, 12-month period. The CO emissions from emissions units P001 through P063 and P065 through P283 combined shall not exceed 128.4 tons per rolling, 12-month period.
g.	OAC rule 3745-110-03	See b)(2)e. below.
h.	40 CFR Part 60, Subpart IIII 40 CFR 60.4202(b)(2) 40 CFR 60.4205(b) 40 CFR 60.4207(b) 40 CFR Part 1039, Appendix I, Tier 2 40 CFR 1039.105	The emissions unit shall be certified to meet the following emissions standards: 0.20 grams PM/kW-hr; 6.4 grams NO _x + NMHC/kW-hr; and 3.5 grams CO/kW-hr. Exhaust opacity from the emissions unit shall not exceed: 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.	40 CFR Part 63, Subpart ZZZZ [The affected source is a new stationary reciprocating combustion engine located at an area source.]	In accordance with 40 CFR 63.6590(c), the emissions unit shall meet the requirements of 40 CFR Part 60, Subpart IIII for compression ignition engines.

(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) and found in Tier 2 of 40 CFR 1039, Appendix I, for engines greater than or equal to 750 horsepower (560 kilowatt).

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

c) Operational Restrictions

- (1) The emergency stationary CI ICE shall be installed, operated, and maintained according to the manufacturer's emission-related written instructions and the permittee shall only change those emission-related settings that are allowed by the manufacturer. The CI ICE must also be installed and operated to meet the applicable requirements from 40 CFR Part 60, Subpart IIII; 40 CFR Part 1039, Control of Emissions from New and In-use Nonroad CI Engines; and 40 CFR Part 1068, the General Compliance Provisions for Engine Programs. The permittee shall operate and maintain the stationary CI ICE to achieve the emissions standards established in 40 CFR 60.4205 over the entire life of the engine(s).
- (2) The maximum ULSD fuel usage for emissions units P001 through P062 and P065 through P283, and the maximum hours of operation for emissions unit P063 shall be limited by the following formulas for each rolling, 12-month period:

242.5 tons of NO_x ≥

$$\sum_{i=P001}^{P283} \left[\frac{(\text{NO}_x \text{ EF}_{\leq 25\% \text{ load},i})(Q_{\leq 25\% \text{ load},i}) + (\text{NO}_x \text{ EF}_{>25\% \text{ load},i})(Q_{>25\% \text{ load},i})}{2,000 \frac{\text{lb}}{\text{ton}}} \right] + \frac{(\text{EF}_{P063})(T_{P063})}{2,000 \frac{\text{lb}}{\text{ton}}}$$

and

128.4 tons of CO ≥

$$\sum_{i=P001}^{P283} \left[\frac{(\text{CO EF}_{\leq 25\% \text{ load},i})(Q_{\leq 25\% \text{ load},i}) + (\text{CO EF}_{> 25\% \text{ load},i})(Q_{> 25\% \text{ load},i})}{2,000 \frac{\text{lb}}{\text{ton}}} \right] + \frac{(\text{EF}_{P063})(T_{P063})}{2,000 \frac{\text{lb}}{\text{ton}}}$$

where:

i = each individual emissions unit, including P001 through P062 and P065 through P283

$\text{NO}_x \text{ EF}_{\leq 25\% \text{ load},i}$ = 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	NO_x Emissions Factor (lb/gal)
P001 through P026, P033 through P058, & P065 through P098	0.135
P027 through P032, P059 through P062, & P099 through P107	0.132
P108 through P141	0.169
P142 through P151	0.156
P152 through P185, P196 through P229, & P240 through P273	0.186
P186 through P195, P230 through P239, & P274 through P283	0.155

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

$\text{NO}_x \text{ EF}_{> 25\% \text{ load},i}$ = 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	NO_x Emissions Factor (lb/gal)
P001 through P026, P033 through P058, & P065 through P098	0.307
P027 through P032, P059 through P062, & P099 through P107	0.253

P108 through P141	0.384
P142 through P151	0.316
P152 through P185, P196 through P229, & P240 through P273	0.408
P186 through P195, P230 through P239, & P274 through P283	0.310

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

EF_{P063} = 0.12 lb/hr (the maximum hourly NO_x emissions and the maximum hourly CO emissions for emissions unit P063 based on information provided on the manufacturer's emission data sheet)

T_{P063} = the number of hours emissions unit P063 was in operation 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	CO Emissions Factor (lb/gal)
P001 through P026, P033 through P058, & P065 through P098	0.02
P027 through P032, P059 through P062, & P099 through P107	0.03
P108 through P141	0.06
P142 through P151	0.07
P152 through P185, P196 through P229, & P240 through P273	0.072
P186 through P195, P230 through P239, & P274 through P283	0.078

$\text{CO } EF_{>25\% \text{ load}, i}$ = 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	CO Emissions Factor (lb/gal)
P001 through P026, P033 through P058, & P065 through P098	0.02
P027 through P032, P059 through P062, & P099 through P107	0.01
P108 through P141	0.07
P142 through P151	0.05
P152 through P185, P196 through P229, & P240 through P273	0.064
P186 through P195, P230 through P239, & P274 through P283	0.046

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 emergency stationary CI ICE shall be installed with a non-resettable hour meter prior to startup of the engine.
- (3) 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.
- (4) 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.
- (5) 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.

- (6) The permittee shall maintain monthly records of the following information for emissions units P001 through P063 and P065 through P283:
- a. the number of gallons of ULSD fuel used by emissions units P001 through P026, P033 through P058, and P065 through P098 while operating at less than or equal to 25% load;
 - b. the number of gallons of ULSD fuel used by emissions units P027 through P032, P059 through P062, and P099 through P107 while operating at less than or equal to 25% load;
 - c. the number of gallons of ULSD fuel used by emissions units P108 through P141 while operating at less than or equal to 25% load;
 - d. the number of gallons of ULSD fuel used by emissions units P142 through P151 while operating at less than or equal to 25% load;
 - e. the number of gallons of ULSD fuel used by emissions units P152 through P185, P196 through P229, and P240 through P273 while operating at less than or equal to 25% load;
 - f. the number of gallons of ULSD fuel used by emissions units P186 through P195, P230 through P239, and P274 through P283 while operating at less than or equal to 25% load;
 - g. the number of gallons of ULSD fuel used by emissions units P001 through P026, P033 through P058, and P065 through P098 while operating at more than 25% load;
 - h. the number of gallons of ULSD fuel used by emissions units P027 through P032, P059 through P062, and P099 through P107 while operating at more than 25% load;
 - i. the number of gallons of ULSD fuel used by emissions units P108 through P141 while operating at more than 25% load;
 - j. the number of gallons of ULSD fuel used by emissions units P142 through P151 while operating at more than 25% load;
 - k. the number of gallons of ULSD fuel used by emissions units P152 through P185, P196 through P229, and P240 through P273 while operating at more than 25% load;
 - l. the number of gallons of ULSD fuel used by emissions units P186 through P195, P230 through P239, and P274 through P283 while operating at more than 25% load;
 - m. the number of hours emissions unit P063 was in operation;

- n. the rolling, 12-month summation of NO_x emissions from emissions units P001 through P063 and P065 through P283, combined, in tons, calculated using the emissions factors specified in c)(2) above; and
- o. the rolling, 12-month summation of CO emissions from emissions units P001 through P063 and P065 through P283, combined, in tons, calculated using the emissions factors specified in c)(2) above.

e) **Reporting Requirements**

- (1) The permittee shall email Ohio EPA, Central District Office a revised EAC form that identifies the serial number for the emergency generator within 30 days after placement on its concrete pad.
- (2) The permittee shall submit quarterly deviation (excursion) reports that identify:
 - a. all exceedances of the rolling, 12-month NO_x emissions limitation;
 - b. all exceedances of the rolling, 12-month CO emissions limitation;
 - c. the probable cause of each deviation (excursion);
 - d. any corrective actions that were taken to remedy the deviations (excursions) or prevent future deviations (excursions); and
 - e. the magnitude and duration of each deviation (excursion).

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

The quarterly reports shall be submitted each year by January 31 (covering October to December), April 30 (covering January to March), July 31 (covering April to June), and October 31 (covering July to September), unless an alternative schedule has been established and approved by the director (Ohio EPA, Central District Office).

f) **Testing Requirements**

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

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.

Exhaust opacity from the emissions unit shall not exceed:
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

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 specification sheet specifying PM emissions rates that are equal to or less than 0.13 g/hp-hr at 100% load.

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)(4) 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

The NO_x emissions from emissions units P001 through P063 and P065 through P283 combined shall not exceed 242.5 tons per rolling, 12-month period.

The CO emissions from emissions units P001 through P063 and P065 through P283 combined shall not exceed 128.4 tons per rolling, 12-month period.

Applicable Compliance Method

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

e. Emissions Limitations

The emissions unit shall be certified to meet the following emissions standards:
0.20 grams PM/kW-hr;
6.4 grams NO_x + NMHC/kW-hr; and
3.5 grams CO/kW-hr.



Draft Permit-to-Install
Montauk Innovations LLC
Permit Number: P0134570
Facility ID: 0145000570

Effective Date: To be entered upon final issuance

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 - Group 7 Emergency Generators: P186 through P195, P230 through P239, and P274 through P283

EU ID	Company Equipment ID
P186	GEN 5_35
P187	GEN 5_36
P188	GEN 5_37
P189	GEN 5_38
P190	GEN 5_39
P191	GEN 5_40
P192	GEN 5_41
P193	GEN 5_42
P194	GEN 5_43
P195	GEN 5_44
P230	GEN 6_35
P231	GEN 6_36
P232	GEN 6_37
P233	GEN 6_38
P234	GEN 6_39

EU ID	Company Equipment ID
P235	GEN 6_40
P236	GEN 6_41
P237	GEN 6_42
P238	GEN 6_43
P239	GEN 6_44
P274	GEN 7_35
P275	GEN 7_36
P276	GEN 7_37
P277	GEN 7_38
P278	GEN 7_39
P279	GEN 7_40
P280	GEN 7_41
P281	GEN 7_42
P282	GEN 7_43
P283	GEN 7_44

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) None.

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.

	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
e.	OAC rule 3745-31-05(D) [Federally enforceable limitations to avoid NSR]	The NO _x emissions from emissions units P001 through P063 and P065 through P283 combined shall not exceed 242.5 tons per rolling, 12-month period. The CO emissions from emissions units P001 through P063 and P065 through P283 combined shall not exceed 128.4 tons per rolling, 12-month period.
f.	OAC rule 3745-110-03	See b)(2)e. below.
g.	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; and 3.5 grams CO/kW-hr. Exhaust opacity from the emissions unit shall not exceed: 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.
h.	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.
i.	40 CFR Part 63, Subpart ZZZZ [The affected source is a new stationary reciprocating combustion engine located at an area source.]	In accordance with 40 CFR 63.6590(c), the emissions unit shall meet the requirements of 40 CFR Part 60, Subpart IIII for compression ignition engines.

(2) Additional Terms and Conditions

- a. The emergency stationary compression ignition (CI) internal combustion engine (ICE) is subject to and shall be operated in compliance with the requirements of 40 CFR Part 60, Subpart IIII, the standards of performance for stationary CI ICE.
- b. The emergency stationary CI ICE has been or shall be purchased certified by the manufacturer to emission standards as stringent as those identified in 40 CFR 60.4202(a)(2) and found in Tier 2 of 40 CFR 1039, Appendix I, for engines greater than or equal to 750 horsepower (560 kilowatt).

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

c) Operational Restrictions

- (1) The emergency stationary CI ICE shall be installed, operated, and maintained according to the manufacturer's emission-related written instructions and the permittee shall only change those emission-related settings that are allowed by the manufacturer. The CI ICE must also be installed and operated to meet the applicable requirements from 40 CFR Part 60, Subpart IIII; 40 CFR Part 1039, Control of Emissions from New and In-use Nonroad CI Engines; and 40 CFR Part 1068, the General Compliance Provisions for Engine Programs. The permittee shall operate and maintain the stationary CI ICE to achieve the emissions standards established in 40 CFR 60.4205 over the entire life of the engine(s).
- (2) The maximum ULSD fuel usage for emissions units P001 through P062 and P065 through P283, and the maximum hours of operation for emissions unit P063 shall be limited by the following formulas for each rolling, 12-month period:

242.5 tons of NO_x ≥

$$\sum_{i=P001}^{P283} \left[\frac{(\text{NO}_x \text{ EF}_{\leq 25\% \text{ load},i})(Q_{\leq 25\% \text{ load},i}) + (\text{NO}_x \text{ EF}_{>25\% \text{ load},i})(Q_{>25\% \text{ load},i})}{2,000 \frac{\text{lb}}{\text{ton}}} \right] + \frac{(\text{EF}_{P063})(T_{P063})}{2,000 \frac{\text{lb}}{\text{ton}}}$$

and

128.4 tons of CO ≥

$$\sum_{i=P001}^{P283} \left[\frac{(\text{CO EF}_{\leq 25\% \text{ load},i})(Q_{\leq 25\% \text{ load},i}) + (\text{CO EF}_{> 25\% \text{ load},i})(Q_{> 25\% \text{ load},i})}{2,000 \frac{\text{lb}}{\text{ton}}} \right] + \frac{(\text{EF}_{P063})(T_{P063})}{2,000 \frac{\text{lb}}{\text{ton}}}$$

where:

i = each individual emissions unit, including P001 through P062 and P065 through P283

$\text{NO}_x \text{ EF}_{\leq 25\% \text{ load},i}$ = 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	NO_x Emissions Factor (lb/gal)
P001 through P026, P033 through P058, & P065 through P098	0.135
P027 through P032, P059 through P062, & P099 through P107	0.132
P108 through P141	0.169
P142 through P151	0.156
P152 through P185, P196 through P229, & P240 through P273	0.186
P186 through P195, P230 through P239, & P274 through P283	0.155

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

$\text{NO}_x \text{ EF}_{> 25\% \text{ load},i}$ = 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	NO_x Emissions Factor (lb/gal)
P001 through P026, P033 through P058, & P065 through P098	0.307
P027 through P032, P059 through P062, & P099 through P107	0.253

P108 through P141	0.384
P142 through P151	0.316
P152 through P185, P196 through P229, & P240 through P273	0.408
P186 through P195, P230 through P239, & P274 through P283	0.310

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

EF_{P063} = 0.12 lb/hr (the maximum hourly NO_x emissions and the maximum hourly CO emissions for emissions unit P063 based on information provided on the manufacturer's emission data sheet)

T_{P063} = the number of hours emissions unit P063 was in operation 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	CO Emissions Factor (lb/gal)
P001 through P026, P033 through P058, & P065 through P098	0.02
P027 through P032, P059 through P062, & P099 through P107	0.03
P108 through P141	0.06
P142 through P151	0.07
P152 through P185, P196 through P229, & P240 through P273	0.072
P186 through P195, P230 through P239, & P274 through P283	0.078

$\text{CO } EF_{>25\% \text{ load},i}$ = 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	CO Emissions Factor (lb/gal)
P001 through P026, P033 through P058, & P065 through P098	0.02
P027 through P032, P059 through P062, & P099 through P107	0.01
P108 through P141	0.07
P142 through P151	0.05
P152 through P185, P196 through P229, & P240 through P273	0.064
P186 through P195, P230 through P239, & P274 through P283	0.046

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 emergency stationary CI ICE shall be installed with a non-resettable hour meter prior to startup of the engine.
- (3) 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.
- (4) 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.
- (5) 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.

- (6) The permittee shall maintain monthly records of the following information for emissions units P001 through P063 and P065 through P283:
- a. the number of gallons of ULSD fuel used by emissions units P001 through P026, P033 through P058, and P065 through P098 while operating at less than or equal to 25% load;
 - b. the number of gallons of ULSD fuel used by emissions units P027 through P032, P059 through P062, and P099 through P107 while operating at less than or equal to 25% load;
 - c. the number of gallons of ULSD fuel used by emissions units P108 through P141 while operating at less than or equal to 25% load;
 - d. the number of gallons of ULSD fuel used by emissions units P142 through P151 while operating at less than or equal to 25% load;
 - e. the number of gallons of ULSD fuel used by emissions units P152 through P185, P196 through P229, and P240 through P273 while operating at less than or equal to 25% load;
 - f. the number of gallons of ULSD fuel used by emissions units P186 through P195, P230 through P239, and P274 through P283 while operating at less than or equal to 25% load;
 - g. the number of gallons of ULSD fuel used by emissions units P001 through P026, P033 through P058, and P065 through P098 while operating at more than 25% load;
 - h. the number of gallons of ULSD fuel used by emissions units P027 through P032, P059 through P062, and P099 through P107 while operating at more than 25% load;
 - i. the number of gallons of ULSD fuel used by emissions units P108 through P141 while operating at more than 25% load;
 - j. the number of gallons of ULSD fuel used by emissions units P142 through P151 while operating at more than 25% load;
 - k. the number of gallons of ULSD fuel used by emissions units P152 through P185, P196 through P229, and P240 through P273 while operating at more than 25% load;
 - l. the number of gallons of ULSD fuel used by emissions units P186 through P195, P230 through P239, and P274 through P283 while operating at more than 25% load;
 - m. the number of hours emissions unit P063 was in operation;

- n. the rolling, 12-month summation of NO_x emissions from emissions units P001 through P063 and P065 through P283, combined, in tons, calculated using the emissions factors specified in c)(2) above; and
- o. the rolling, 12-month summation of CO emissions from emissions units P001 through P063 and P065 through P283, combined, in tons, calculated using the emissions factors specified in c)(2) above.

e) **Reporting Requirements**

- (1) The permittee shall email Ohio EPA, Central District Office a revised EAC form that identifies the serial number for the emergency generator within 30 days after placement on its concrete pad.
- (2) The permittee shall submit quarterly deviation (excursion) reports that identify:
 - a. all exceedances of the rolling, 12-month NO_x emissions limitation;
 - b. all exceedances of the rolling, 12-month CO emissions limitation;
 - c. the probable cause of each deviation (excursion);
 - d. any corrective actions that were taken to remedy the deviations (excursions) or prevent future deviations (excursions); and
 - e. the magnitude and duration of each deviation (excursion).

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

The quarterly reports shall be submitted each year by January 31 (covering October to December), April 30 (covering January to March), July 31 (covering April to June), and October 31 (covering July to September), unless an alternative schedule has been established and approved by the director (Ohio EPA, Central District Office).

f) **Testing Requirements**

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

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.

Exhaust opacity from the emissions unit shall not exceed:
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

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 specification sheet specifying PM emissions rates that are equal to or less than 0.07 g/hp-hr at 100% load.

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)(4) 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

The NO_x emissions from emissions units P001 through P063 and P065 through P283 combined shall not exceed 242.5 tons per rolling, 12-month period.

The CO emissions from emissions units P001 through P063 and P065 through P283 combined shall not exceed 128.4 tons per rolling, 12-month period.

Applicable Compliance Method

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

e. Emissions Limitations

The emissions unit shall be certified to meet the following emissions standards:
0.20 grams PM/kW-hr;
6.4 grams NO_x + NMHC/kW-hr; and
3.5 grams CO/kW-hr.



Draft Permit-to-Install
Montauk Innovations LLC
Permit Number: P0134570
Facility ID: 0145000570

Effective Date: To be entered upon final issuance

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.