



John R. Kasich, Governor  
Mary Taylor, Lt. Governor  
Scott J. Nally, Director

7/2/2013

Certified Mail

Beth Mowrey  
Shelly Materials 21.0089  
P.O. Box 266  
8775 Blackbird Lane  
Thornville, OH 43076

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

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

Facility ID: 0664005022  
Permit Number: P0113531  
Permit Type: Initial Installation  
County: Perry

Dear Permit Holder:

A draft of the Ohio Administrative Code (OAC) Chapter 3745-31 Air Pollution Permit-to-Install and Operate (PTIO) for the referenced facility has been issued for the emissions unit(s) listed in the Authorization section of the enclosed draft permit. This draft action is not an authorization to begin construction or modification of your emissions unit(s). The purpose of this draft is to solicit public comments on the permit. A public notice will appear in the Ohio Environmental Protection Agency (EPA) Weekly Review and the local newspaper, Perry County Tribune. A copy of the public notice and the draft permit are enclosed. This permit can be accessed electronically on the Division of Air Pollution Control (DAPC) Web page, [www.epa.ohio.gov/dapc](http://www.epa.ohio.gov/dapc) by clicking the "Search for Permits" link under the Permitting topic on the Programs tab. Comments will be accepted as a marked-up copy of the draft permit or in narrative format. Any comments must be sent to the following:

Andrew Hall  
Permit Review/Development Section  
Ohio EPA, DAPC  
122 South Front Street  
Columbus, Ohio 43215

and Ohio EPA DAPC, Southeast District Office  
2195 Front Street  
Logan, OH 43138

Comments and/or a request for a public hearing will be accepted within 30 days of the date the notice is published in the newspaper. You will be notified if a public hearing is scheduled. A decision on issuing a final permit-to-install will be made after consideration of comments received and oral testimony if a public hearing is conducted. Any permit fee that will be due upon issuance of a final Permit-to-Install is indicated in the Authorization section. Please do not submit any payment now. If you have any questions, please contact Ohio EPA DAPC, Southeast District Office at (740)385-8501.

Sincerely,

Michael W. Ahern, Manager  
Permit Issuance and Data Management Section, DAPC

Cc: U.S. EPA Region 5 Via E-Mail Notification  
Ohio EPA-SEDO; West Virginia



PUBLIC NOTICE

7/2/2013 Issuance of Draft Air Pollution Permit-To-Install and Operate

Shelly Materials 21.0089

8775 Blackbird Lane,

Thornville, OH 43076

Perry County

FACILITY DESC.: Asphalt Paving Mixture and Block Manufacturing

PERMIT #: P0113531

PERMIT TYPE: Initial Installation

PERMIT DESC: Portable 1093 hp CAT C27 diesel generator.

The Director of the Ohio Environmental Protection Agency issued the draft permit above. The permit and complete instructions for requesting information or submitting comments may be obtained at: <http://epa.ohio.gov/dapc/permitsonline.aspx> by entering the permit # or: Mykal Mercer, Ohio EPA DAPC, Southeast District Office, 2195 Front Street, Logan, OH 43138. Ph: (740)385-8501





## Permit Strategy Write-Up

1. Check all that apply:

Synthetic Minor Determination

Netting Determination

2. Source Description:

Shelly Materials 21.0089 is a portable 1,093 HP diesel-fired CAT C27 generator, manufactured in 2013, for a maximum operation of 3,400 hours per year. This is an initial PTIO.

3. Facility Emissions and Attainment Status:

Shelly 21.0089 is a portable engine permitted out of Perry County, Ohio which is in attainment for all criteria pollutants. But since this engine is portable, it will likely be relocated soon after the permit becomes effective. Portable language was included in the permit, requiring proper notification and approval of relocation. The permit also requires Shelly to obtain a Title V permit if collocated with sources, which define a Title V facility. Federally enforceable restriction will lower the potential emissions to less than 100 TPY for all criteria pollutants. These restrictions will keep the company from the requirements of modeling and Title V permitting.

4. Source Emissions:

Shelly has requested a maximum operational limit of 3,400 hours per rolling 12-month period in order to avoid NO<sub>x</sub> modeling and Title V applicability when co-locating with other sources. Stack emissions are listed in 7. below.

5. Conclusion:

The operation restrictions, emission limits, emissions testing, record keeping and reporting requirements of this permit are sufficient to provide federally enforceable limitations to limit the potential to emit from this emissions unit.

6. Please provide additional notes or comments as necessary:

None.

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

<u>Pollutant</u>	<u>Tons Per Year</u>
NO <sub>x</sub>	10.69
CO	10.69
SO <sub>2</sub>	0.02
OC	1.22
PM	0.31
HAP's	< 1 TON





**DRAFT**

**Division of Air Pollution Control  
Permit-to-Install and Operate  
for  
Shelly Materials 21.0089**

Facility ID:	0664005022
Permit Number:	P0113531
Permit Type:	Initial Installation
Issued:	7/2/2013
Effective:	To be entered upon final issuance
Expiration:	To be entered upon final issuance





**Division of Air Pollution Control**  
**Permit-to-Install and Operate**  
for  
Shelly Materials 21.0089

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**Draft Permit-to-Install and Operate**

Shelly Materials 21.0089

**Permit Number:** P0113531

**Facility ID:** 0664005022

**Effective Date:** To be entered upon final issuance

## Authorization

Facility ID: 0664005022  
Application Number(s): A0046782  
Permit Number: P0113531  
Permit Description: Portable 1093 hp CAT C27 diesel generator.  
Permit Type: Initial Installation  
Permit Fee: \$100.00 *DO NOT send payment at this time, subject to change before final issuance*  
Issue Date: 7/2/2013  
Effective Date: To be entered upon final issuance  
Expiration Date: To be entered upon final issuance  
Permit Evaluation Report (PER) Annual Date: To be entered upon final issuance

This document constitutes issuance to:

Shelly Materials 21.0089  
8775 Blackbird Lane  
Thornville, OH 43076

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

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

Ohio EPA DAPC, Southeast District Office  
2195 Front Street  
Logan, OH 43138  
(740)385-8501

The above named entity is hereby granted this Permit-to-Install and Operate for the air contaminant source(s) (emissions unit(s)) listed in this section pursuant to Chapter 3745-31 of the Ohio Administrative Code. Issuance of this permit does not constitute expressed or implied approval or agreement that, if constructed or modified in accordance with the plans included in the application, the described emissions unit(s) will operate in compliance with applicable State and Federal laws and regulations.

This permit is granted subject to the conditions attached hereto.

Ohio Environmental Protection Agency

Scott J. Nally  
Director



**Draft Permit-to-Install and Operate**

Shelly Materials 21.0089

**Permit Number:** P0113531

**Facility ID:** 0664005022

**Effective Date:** To be entered upon final issuance

## Authorization (continued)

Permit Number: P0113531

Permit Description: Portable 1093 hp CAT C27 diesel generator.

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

<b>Emissions Unit ID:</b>	<b>P001</b>
Company Equipment ID:	Generator 21.0089
Superseded Permit Number:	
General Permit Category and Type:	Not Applicable



**Draft Permit-to-Install and Operate**

Shelly Materials 21.0089

**Permit Number:** P0113531

**Facility ID:** 0664005022

**Effective Date:** To be entered upon final issuance

## **A. Standard Terms and Conditions**



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

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

**2. Who is responsible for complying with this permit?**

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

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

**3. What records must I keep under this permit?**

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

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

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

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

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

- Annual emissions fee. Ohio EPA will assess a separate fee based on the total annual emissions from your facility. You self-report your emissions in accordance with Ohio Administrative Code (OAC) Chapter 3745-78. This fee assessed is based on a fee schedule in ORC section 3745.11 and funds Ohio EPA's permit compliance oversight activities. Unless otherwise specified, facilities subject to one or more synthetic minor restrictions must use Ohio EPA's "Air Services" to submit annual emissions associated with this permit requirement. Ohio EPA will notify you when it is time to report your emissions and to pay your annual emission fees.

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

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



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

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

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

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

**7. What reports must I submit under this permit?**

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

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

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

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

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

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



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

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

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

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

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

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

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

You should notify Ohio EPA of any emissions unit that is permanently shut down by submitting<sup>1</sup> a certification that identifies the date on which the emissions unit was permanently shut down. The certification must be submitted by an authorized official from the facility. You cannot continue to operate an emissions unit once the certification has been submitted to Ohio EPA by the authorized official.

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

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

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<sup>1</sup> Permittees that use Ohio EPA's "Air Services" can mark the affected emissions unit(s) as "permanently shutdown" in the facility profile along with the date the emissions unit(s) was permanently removed and/or disabled. Submitting the facility profile update will constitute notifying of the permanent shutdown of the affected emissions unit(s).



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

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

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

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

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

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



**Draft Permit-to-Install and Operate**

Shelly Materials 21.0089

**Permit Number:** P0113531

**Facility ID:** 0664005022

**Effective Date:** To be entered upon final issuance

## **B. Facility-Wide Terms and Conditions**



1. This permit document constitutes a permit-to-install issued in accordance with ORC 3704.03(F) and a permit-to-operate issued in accordance with ORC 3704.03(G).
  - a) For the purpose of a permit-to-install document, the facility-wide terms and conditions identified below are federally enforceable with the exception of those listed below which are enforceable under state law only.
    - (1) None.
  - b) For the purpose of a permit-to-operate document, the facility-wide terms and conditions identified below are enforceable under state law only with the exception of those listed below which are federally enforceable.
    - (1) None.
2. Emissions unit P001 contained in this permit are subject to 40 CFR Part 60, Subpart IIII. The complete NSPS requirements, including the NSPS General Provisions, may be accessed via the internet from the Electronic Code of Federal Regulation (e-CFR) website <http://ecfr.gpoaccess.gov> or by contacting the appropriate Ohio EPA District office or local air agency.
3. The Ohio EPA has determined that the facility is subject to the requirements of 40 CFR Part 63 Subpart ZZZZ, National Emission Standards for Hazardous Air Pollutants (NESHAP) for Stationary Reciprocating Internal Combustion Engines area sources. Although Ohio EPA has determined that this Generally Available Control Technology NESHAP (GACT) applies, at this time Ohio EPA does not have the authority to enforce this standard. Instead, U.S. EPA has the authority to enforce this standard. Please be advised, that all requirements associated with this rule are in effect and shall be enforced by U.S. EPA. For more information on the area sources rules, please refer to the following U.S. EPA website: <http://www.epa.gov/ttn/atw/area/arearules.html>.



**Draft Permit-to-Install and Operate**

Shelly Materials 21.0089

**Permit Number:** P0113531

**Facility ID:** 0664005022

**Effective Date:** To be entered upon final issuance

## **C. Emissions Unit Terms and Conditions**



**1. P001, Generator 21.0089**

**Operations, Property and/or Equipment Description:**

Portable CAT C27, a 1093 HP, 725 kW, 7.27 MMBTU/hr diesel-fired generator, manufactured in 2013, maximum of 3,400 hours per year of operation.

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

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

a. g)(7)

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

a. b)(1)c., c)(2), d)(2), c)(3), e)(3), f)(1)a.-e.

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.	ORC 3704.03 (T)	Nitrogen oxides (NO <sub>x</sub> ) emissions shall not exceed 0.0058 lb/HP-hr.  Carbon monoxide (CO) emissions shall not exceed 0.0058 lb/HP-hr.
b.	OAC rule 3745-31-05(A)(3), as effective 11/30/01	Sulfur dioxide (SO <sub>2</sub> ) emissions shall not exceed 0.0000081 lb/HP-hr.  Particulate matter (PM) and particulate matter less than 10 microns (PM <sub>10</sub> ) shall not exceed 0.00016 lb/HP-hr.  Organic compound (OC) emissions shall not exceed 0.00066 lb/HP-hr.  The requirements of this rule include compliance with OAC rule 3745-17-07(A).



	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
		See b)(2)a. below
c.	OAC rule 3745-31-05(D) (Synthetic minor to avoid state modeling and to avoid Title V requirements associated with relocation of a portable source with other similar sources.)	<p>NO<sub>x</sub> emissions shall not exceed 10.69 tons per rolling, 12-month period.</p> <p>CO emissions shall not exceed 10.69 tons per rolling, 12-month period.</p> <p>SO<sub>2</sub> emissions shall not exceed 0.02 ton per rolling, 12-month period.</p> <p>OC emissions shall not exceed 1.22 tons per rolling, 12-month period.</p> <p>PM and emissions of PM<sub>10</sub> shall not exceed 0.31 ton per rolling, 12-month period.</p> <p>See c)(2) below.</p>
d.	OAC rule 3745-31-05(A)(3)(b), as effective 12/01/06	See b)(2)b. below
e.	OAC rule 3745-31-05(A)(3)(a)(ii), as effective 12/01/06	See b)(2)c. below
f.	OAC rule 3745-17-07(A)(1)	Visible PE from any stack serving this emissions unit shall not exceed 20 percent opacity as a six-minute average, except as provided by rule.
g.	OAC rule 3745-17-11(B)(5)(b)	The emission limitation specified by this rule is less stringent than the emission limitation established for PE pursuant to OAC rule 3745-31-05(A)(3), as effective 11/30/01 and 40 CFR Part 60, Subpart III.
h.	40 CFR Part 60, Subpart III (40 CFR 60.4200-4219) [In accordance with 40 CFR 60.4204(c), this emissions unit is a non-emergency stationary CI internal combustion engine that commenced construction after July 11, 2005, with a displacement of greater than or equal to 30 liters per cylinder subject to the emissions limitations/control measures specified in this section.]	<p>The NO<sub>x</sub> emissions limitation specified by this rule is less stringent than the emissions limitation established pursuant to ORC 3704.03 (T). [40 CFR 60.4204(c)(2)(ii)]</p> <p>PM/PM<sub>10</sub> emissions shall not exceed 0.00024 lb/HP-hr. [40 CFR 60.4204(c)(4)]</p> <p>The PM/PM<sub>10</sub> emissions limitation is less stringent than the PM/PM<sub>10</sub> limitation listed under OAC rule 3745-31-05(A)(3), until such time as U.S. EPA approves the December 1, 2006, version of OAC rule</p>



	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
		3745-31-05 as part of the State Implementation Plan.
i.	OAC rule 3745-18-06(G)	Exempt. See b)(2)d. below.
j.	40 CFR 60.1-19 (pursuant to 40 CFR 60.4218)	Table 8 of Subpart IIII of 40 CFR Part 60 – Applicability of General Provisions to Subpart IIII, specifies the provisions of Subpart A that apply to owners and operators of affected facilities subject to this subpart or that apply with certain exceptions.

(2) Additional Terms and Conditions

a. The permittee has satisfied the Best Available Technology (BAT) requirements pursuant to OAC rule 3745-31-05(A)(3), as effective November 30, 2001, in this permit. On December 1, 2006, paragraph (A)(3) of OAC rule 3745-31-05 was revised to conform to ORC changes effective August 3, 2006 (S.B. 265 changes), such that BAT is no longer required by State regulation for NAAQS pollutant emissions less than ten tons per year. However, that rule revision has not yet been approved by U.S. EPA as a revision to Ohio’s State Implementation Plan (SIP). Therefore, until the SIP revision occurs and the U.S. EPA approves the revision to OAC rule 3745-31-05, the requirement to satisfy BAT still exists as part of the federally–approved SIP for Ohio. Once U.S. EPA approves the December 1, 2006 version of OAC rule 3745-31-05, then these emission limits/control measures no longer apply.

b. This rule paragraph applies once U.S. EPA approves the December 1, 2006 version of OAC rule 3745-31-05 as part of the SIP.

The BAT requirements under OAC rule 3745-31-05(A)(3) do not apply to the OC and PM/PM<sub>10</sub> from this air contaminant source since the uncontrolled potential to emit for OC and PM/PM<sub>10</sub> emissions is less than 10 tons/yr.

c. This rule paragraph applies once U.S. EPA approves the December 1, 2006 version of OAC rule 3745-31-05 as part of the SIP.

The BAT requirements under OAC rule 3745-31-05(A)(3) do not apply to the SO<sub>2</sub> from this air contaminant source since the calculated annual emission rate for SO<sub>2</sub> is less than 10 tons/yr taking into account the federally enforceable rule limit for sulfur content from 40 CFR 60.4204.

d. This emissions unit is exempt from the requirements of OAC rule 3745-18-06(G) pursuant to OAC rule 3745-18-06(B).



c) Operational Restrictions

- (1) The permittee shall burn only diesel fuel in this emissions unit.
- (2) The permittee has requested a limitation on operating hours for purposes of limiting potential to emit to avoid state modeling NO<sub>x</sub> and to avoid Title V requirements associated with co-location of a portable source with other similar sources. Therefore, the maximum number of operating hours for emissions unit P001 shall not exceed 3,400 hours as a rolling, 12-month summation. To ensure compliance during the first 12 calendar months of operation following the issuance of this permit, the permittee shall not exceed the operating hours specified in the following table:

<u>Months(s)</u>	<u>Maximum Cumulative Operating Hours</u>
1	680
1-2	1,360
1-3	2,040
1-4	2,720
1-5	3,400
1-6	3,400
1-7	3,400
1-8	3,400
1-9	3,400
1-10	3,400
1-11	3,400
1-12	3,400

After the first 12 calendar months of operation following the startup of emissions unit P001, compliance with the annual operating hour limitation shall be based upon a rolling, 12-month summation of the operating hours.

- (3) The permittee shall comply with the applicable restrictions required under 40 CFR Part 60, Subpart IIII, including the following sections:

60.4207(d)	Diesel fuel oil burned in this engine shall not exceed a maximum per gallon sulfur content of 1,000 ppm.
60.4211(a)(1)-(3)	Operate and maintain per manufacturer's instructions.

d) Monitoring and/or Recordkeeping Requirements

- (1) For each day during which the permittee burns a fuel other than diesel fuel, the permittee shall maintain a record of the type and quantity of fuel burned in this emissions unit.



- (2) The permittee shall maintain monthly records of the following information:
  - a. the operating hours for each month;
  - b. beginning after the first 12 calendar months of operation following the issuance of this permit, the rolling, 12-month summation of the hours of operation; and
  - c. during the first 12 calendar months of operation following the issuance of this permit, the permittee shall record the cumulative operating hours for each calendar month.
  
- (3) The permittee shall comply with the applicable restrictions required under 40 CFR Part 60, Subpart IIII, including the following sections:

60.4214(a)(1)	recordkeeping – notifications
60.4214(a)(2)(i)-(ii)	recordkeeping – maintenance
60.4214(a)(2)(iii)	recordkeeping – engine certification
60.4214(a)(2)(iv)	recordkeeping – emissions standards for uncertified engines
60.4214(c)	recordkeeping – corrective action taken after the high backpressure monitor limit is approached

e) Reporting Requirements

- (1) Unless other arrangements have been approved by the Director, all notifications and reports shall be submitted through the Ohio EPA's eBusiness Center: Air Services online web portal.
- (2) The permittee shall submit deviation (excursion) reports that identify each day when a fuel other than diesel fuel was burned in this emissions unit. Each report shall be submitted within 30 days after the deviation occurs.
- (3) The permittee shall submit quarterly deviation (excursion) reports that identify the following:
  - a. all exceedances of the rolling, 12-month limitation on the hours of operation for this emissions unit; and for the first 12 calendar months of operation or the first 12 calendar months following the issuance of this permit, all exceedances of the maximum allowable cumulative hours of operation;

The quarterly deviation (excursion) reports shall be submitted in accordance with the reporting requirements of the Standard Terms and Conditions of this permit.



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:

NO<sub>x</sub> emissions shall not exceed 0.0058 lb/HP-hr.

NO<sub>x</sub> emissions shall not exceed 10.69 tons per rolling, 12-month period.

Applicable Compliance Method:

Compliance shall be based upon an emission factor of 0.0058 lb/HP-hr. This emission factor is specified in the performance data for the CAT C27 supplied by permittee (GP1509, dated March 27, 2013).

Compliance with the NO<sub>x</sub> lb/HP-hr emissions limitation shall be demonstrated based upon the methods and procedures specified in 40 CFR Part 60, Appendix A, Methods 1 through 4 and 7. See f)(3) below.

Compliance with the rolling, 12-month emissions limitations is demonstrated by multiplying the actual rolling, 12-month summation of hours of operation and the uncontrolled emission factor for NO<sub>x</sub> from CAT C27 performance data (GP1509, dated March 27, 2013), of 0.0058 lb/HP-hr by the maximum rated capacity of P001 (1093 HP), then dividing by 2,000 lbs/ton.

b. Emissions Limitations:

CO emissions shall not exceed 0.0058 lb/HP-hr.

CO emissions shall not exceed 10.69 tons per rolling, 12-month period.

Applicable Compliance Method:

Compliance shall be based upon an emission factor of 0.0058 lb/HP-hr. This emission factor is specified in the performance data for the CAT C27 supplied by permittee (GP1509, dated March 27, 2013).

If required, compliance with the CO lb/HP-hr emissions limitation shall be demonstrated based upon the methods and procedures specified in 40 CFR Part 60, Appendix A, Methods 1 through 4 and 10.

Compliance with the rolling, 12-month emissions limitations is demonstrated by multiplying the actual rolling, 12-month summation of hours of operation and the uncontrolled emission factor for CO from CAT C27 performance data (GP1509, dated March 27, 2013), of 0.0058 lb/HP-hr by the maximum rated capacity of P001 (1,093 HP), then dividing by 2,000 lbs/ton.

c. Emissions Limitations:

SO<sub>2</sub> emissions shall not exceed 0.0000081 lb/HP-hr.

SO<sub>2</sub> emissions shall not exceed 0.02 tons per rolling, 12-month period.



**Applicable Compliance Method:**

Compliance shall be based upon an emission factor of 0.00000809 lb/HP-hr. This emission factor is specified in the U.S. EPA reference document AP-42, Fifth Edition, Compilation of Air Pollution Emission Factors, Section 3.4, Table 3.4-1 (10/96), (0.00809lb/HP-hr), then multiplied by the percentage of sulfur content allowed in the fuel (0.001). Maximum fuel sulfur content is specified in 40 CFR 60.4207(d) (amended 1/30/13).

If required, compliance with the SO<sub>2</sub>lb/HP-hr emissions limitation shall be demonstrated based upon the methods and procedures specified in 40 CFR Part 60, Appendix A, Methods 1 through 4 and 6.

Compliance with the rolling, 12-month emission limitation is demonstrated by multiplying the actual rolling, 12-month summation of hours of operation and the emission factor for SO<sub>2</sub> from AP-42, Table 3.4-1 (10/96) of 0.00809 lb/HP-hr by the maximum rated capacity of P001 (1,093 HP) and the fuel sulfur content (40 CFR 60.4207(d)) then dividing by 2,000 lbs/ton.

**d. Emissions Limitations:**

OC emissions shall not exceed 0.00066 lb/HP-hr.

OC emissions shall not exceed 1.22 tons per rolling, 12-month period.

**Applicable Compliance Method:**

Compliance shall be based upon an emission factor of 0.00066 lb/HP-hr. This emission factor is specified in the performance data for the CAT C27 supplied by permittee (GP1509, dated 3/27/13).

If required, compliance with the OC lb/HP-hr emission limitation shall be demonstrated based upon the methods and procedures specified in 40 CFR Part 60, Appendix A, Methods 1 - 4, and 18, 25, or 25A.

Compliance with the rolling, 12-month emissions limitations is demonstrated by multiplying the actual rolling, 12-month summation of hours of operation and the uncontrolled emission factor for OC from CAT C27 performance data (GP1509, dated 3/27/13), of 0.00066 lb/HP-hr by the maximum rated capacity of P001 (1,093 HP), then dividing by 2,000 lbs/ton.

**e. Emissions Limitations:**

PM/PM<sub>10</sub> emissions shall not exceed 0.00016 lb/HP-hr.

PM/PM<sub>10</sub> emissions shall not exceed 0.31 ton per rolling, 12-month period.

**Applicable Compliance Method:**

Compliance shall be based upon an emission factor of 0.00016 lb/HP-hr. This emission factor is specified in the performance data for the CAT C27 supplied by permittee (GP1509, dated 3/27/13).

Compliance with the PM lb/HP-hr emission limitation shall be demonstrated based upon the methods and procedures specified in 40 CFR Part 60, Appendix A, Methods 1-5. See f)(3) below.



Compliance with the rolling, 12-month emissions limitations is demonstrated by multiplying the actual rolling, 12-month summation of hours of operation and the uncontrolled emission factor for PM/PM<sub>10</sub> from CAT C27 performance data (GP1509, dated 3/27/13), of 0.00016 lb/HP-hr by the maximum rated capacity of P001 (1,093 HP), then dividing by 2,000 lbs/ton.

f. Emissions Limitation:

PM/PM<sub>10</sub> emissions shall not exceed 0.00024 lb/HP-hr.

Applicable Compliance Method:

Compliance shall be based upon an emission factor of 0.00016 lb/HP-hr. This emission factor is specified in the performance data for the CAT C27 supplied by permittee (GP1509, dated 3/27/13).

Compliance with the PM/PM<sub>10</sub> emission limitation shall be demonstrated based upon the methods and procedures specified in 40 CFR Part 60, Appendix A, Methods 1 through 5. See f)(3) below.

g. Emissions Limitation:

Visible PE from any stack serving this emissions unit shall not exceed 20 percent opacity as a six-minute average, except as provided by rule.

Applicable Compliance Method:

If required, compliance with the visible PE limitation shall be determined according to USEPA Method 9.

- (2) If the certified diesel engine is not maintained and operated in accordance with the manufacturer's emission-related written instructions, the engine will be considered a non-certified engine and the permittee must conduct an initial performance test in accordance with 40 CFR 60.4213, and 60.4211(d) within one year of engine startup to demonstrate compliance with 40 CFR 60.4204(c).
- (3) Performance testing shall be conducted as required in 40 CFR Part 60, Subpart IIII pursuant to 40 CFR 60.4213 and Subpart A of 40 CFR Part 60. The permittee shall conduct, or have conducted, emission testing for this emissions unit in accordance with the following requirements:
  - a. The emission testing shall be conducted 60 days after achieving the maximum production rate at which the emissions unit will be operated, but not later than 180 days after initial startup of the emissions unit, and annually thereafter.
  - b. The emission testing shall be conducted to demonstrate compliance with the NO<sub>x</sub> and PM/PM<sub>10</sub> limitations.
  - c. The following test methods shall be employed to demonstrate compliance with the particulate emission limitation:
    - i. NO<sub>x</sub>: Method 1-4 and 7E of 40 CFR Part 60, Appendix A; or Method 3, 3A, or 3B of 40 CFR Part 60, Appendix A; Method 4 of 40 CFR Part 60,



Appendix A, Method 320 of 40 CFR Part 60, Appendix A, or ASTM D 6348-03 (incorporated by reference, see § 60.17)

- ii. PM/PM<sub>10</sub>: Method 1-5 of 40 CFR Part 60, Appendix A.

Alternative U.S. EPA approved test methods may be used with prior approval from the Ohio EPA.

- d. The test(s) shall be conducted under those representative conditions that challenge to the fullest extent possible a facility's ability to meet the applicable emissions limits and/or control requirements, unless otherwise specified or approved by the appropriate Ohio EPA District Office or local air agency. Although this generally consists of operating the emissions unit at its maximum material input/production rates and results in the highest emission rate of the tested pollutant, there may be circumstances where a lower emissions loading is deemed the most challenging control scenario. Failure to test under these conditions is justification for not accepting the test results as a demonstration of compliance.
- e. Not later than 30 days prior to the proposed test date(s), the permittee shall submit an "Intent to Test" notification to the appropriate Ohio EPA District Office or local air agency. The "Intent to Test" notification shall describe in detail the proposed test methods and procedures, the emissions unit operating parameters, the time(s) and date(s) of the test(s), and the person(s) who will be conducting the test(s). Failure to submit such notification for review and approval prior to the test(s) may result in the Ohio EPA District Office's or local air agency's refusal to accept the results of the emission test(s).
- f. Personnel from the appropriate Ohio EPA District Office or local air agency shall be permitted to witness the test(s), examine the testing equipment, and acquire data and information necessary to ensure that the operation of the emissions unit and the testing procedures provide a valid characterization of the emissions from the emissions unit and/or the performance of the control equipment.
- g. A comprehensive written report on the results of the emissions test(s) shall be signed by the person or persons responsible for the tests and submitted to the appropriate Ohio EPA District Office or local air agency within 30 days following completion of the test(s). The permittee may request additional time for the submittal of the written report, where warranted, with prior approval from the appropriate Ohio EPA District Office or local air agency.

g) **Miscellaneous Requirements**

- (1) At the discretion and following the approval of the director, the permittee may relocate the portable source within the State of Ohio without first obtaining a permit to install (PTI) or permit to install and operate (PTIO) providing the appropriate exemption requirements have been met. The director may issue a "Notice of Site Approval" for either of the following situations: the permittee notifies the director a minimum of 30 days prior to relocating pursuant to OAC rule 3745-31-03(A)(1)(p)(i); or the permittee identifies pre-disclosed location(s) that meet the criteria found in OAC rule 3745-31-05(H).



- (2) Pursuant to OAC rules 3745-31-03(A)(1)(p)(i), 3745-31-03(A)(1)(p)(ii), and 3745-31-05(H), the following criteria must be met for all portable facilities seeking approval for relocation:
  - a. the portable source must possess an issued permit to install (PTI) or permit to install and operate (PTIO) and demonstrate continuing compliance with any applicable best available technology determination and state and/or federal air pollution rule or law; and,
  - b. the portable source is operating pursuant to a currently effective PTI, PTIO and/or any applicable permit to operate (PTO) and demonstrates continuing compliance with the requirements of the permit(s).
  
- (3) In order to relocate a portable source in accordance with OAC rule 3745-31-03(A)(1)(p)(i) (i.e. the 30-day option), the following additional criteria must be met:
  - a. the permittee has provided proper notice of intent to relocate the portable source to the permitting District Office/Local air agency a minimum of thirty days prior to the scheduled relocation;
  - b. the permitting District Office/Local air agency and the District Office/Local air agency having jurisdiction over the new site have determined that the emissions would not cause a nuisance in violation of OAC rule 3745-15-07, and that the relocation of the portable source would not result in the installation of a major stationary source or a modification of an existing major stationary source at the new site; and
  - c. the director has issued a "Notice of Site Approval", stating that the proposed site is acceptable under OAC rule 3745-15-07, and that the relocation will not result in the installation or the modification of a major stationary source.

Using the 30-day option, the portable source may only be relocated upon receipt of the "Notice of Site Approval".
  
- (4) In order to relocate a portable source in accordance with OAC rules 3745-31-03(A)(1)(p)(ii) and 3745-31-05(H) (i.e. the 15-day option), the following additional criteria must be met:
  - a. the portable source owner has identified the proposed site(s) to the permitting District Office/Local air agency;
  - b. the owner of the proposed site(s) (if not the permittee) has provided the portable source owner with approval, or an equivalent declaration, that it is acceptable to move the portable source to the proposed site(s);
  - c. the permitting District Office/Local air agency and the District Office/Local air agency having jurisdiction over the new site have determined that the portable source will have an acceptable environmental impact at the proposed site(s);



- d. a public notice, consistent with OAC Chapter 3745-47, has been published in the county where the proposed site(s) is/are located;
- e. the permittee has provided the Ohio EPA with a minimum of a 15-day written notice of the relocation.

Using the 15-day option, the portable source may only be relocated upon receipt of the "Notice of Site Approval", and following submittal of the 15-day written notice of the relocation. Any site approvals issued pursuant to OAC rule 3745-31-05(H) shall be valid for no longer than 3 years and are subject to renewal. Also, pursuant to OAC rule 3745-31-07(D)(2), the director may modify the site approval to add or delete certain portable sources or add or delete certain terms and conditions as appropriate.

- (5) Failure to submit said notification or failure to receive Ohio EPA approval prior to relocation of the portable source may result in fines and civil penalties.
- (6) When a portable source is co-located at a stationary source, or is co-located with multiple portable sources, potential emissions from the portable source may be required to be combined for facility potential to emit calculations for Title V and PSD applicability. If the relocation of the portable source would result in the installation of a major source or the modification of a major source, as defined in OAC rule 3745-31-01 (LLL) and (JJJ), the permittee shall submit an application and obtain a PTI for the new location prior to moving the portable source. Relocation of any portable source that results in the creation of a major source, as defined in OAC rule 3745- 77-01, must also meet all applicable requirements under the Title V program contained in OAC Chapter 3745-77, which may include the requirement to apply for a Title V permit.
- (7) Modeling to demonstrate compliance with the "Toxic Air Contaminant Statute" in ORC 3704.03(F)(4)(b) was not necessary because the emissions unit's maximum annual emissions for each toxic air contaminant, as defined in OAC rule 3745-114-01, will be less than 1.0 ton per year. OAC Chapter 3745-31 requires permittees to apply for and obtain a new or modified permit to install prior to making a "modification" as defined by OAC rule 3745-31-01. The permittee is hereby advised that changes in the composition of the materials, or use of new materials, that would cause the emissions of any toxic air contaminant to increase to above 1.0 ton per year may require the permittee to apply for and obtain a new PTI or PTIO.