Ohio Environmental Protection Agency
John R. Kasich, Governor
Mary Taylor, Lt. Governor
Scott J. Nally, Director

Certified Mail

10/15/2012

Lucas Campbell
Gatherco, Inc./Malta Compressor Station
300 Tracy Bridge Rd
Orrville, OH 44667

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

RE: FINALAIR POLLUTION PERMIT-TO-INSTALL AND OPERATE
Facility ID: 1576001924
Permit Number: P0109560
Permit Type: Initial Installation
County: Morgan

Dear Permit Holder:

Enclosed please find a final Air Pollution Permit-to-Install and Operate (PTIO) which will allow you to install, modify, and/or operate the described emissions unit(s) in the manner indicated in the permit. Because this permit contains conditions and restrictions, please read it very carefully. Please complete a survey at www.epa.ohio.gov/dapc/permitsurvey.aspx and give us feedback on your permitting experience. We value your opinion.

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

Environmental Review Appeals Commission
309 South Fourth Street, Room 222
Columbus, OH 43215

If you have any questions, please contact Canton City Health Department at (330)489-3385or the Office of Compliance Assistance and Pollution Prevention at (614) 644-3469. This permit can be accessed electronically on the DAPCWeb page,www.epa.ohio.gov/dapc, by clicking the "Issued Air Pollution Control Permits" link.

Sincerely,

Michael W. Ahern

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

Cc: Ohio EPA-SEDO

Ohio | Environmental Protection Agency

FINAL

Division of Air Pollution Control
Permit-to-Install and Operate
for
Gatherco, Inc./Malta Compressor Station

Facility ID:	1576001924
Permit Number:	P0109560
Permit Type:	Initial Installation
Issued:	10/15/2012
Effective:	10/15/2012
Expiration:	10/15/2022

Ohio Environmental Protection Agency

Division of Air Pollution Control
Permit-to-Install and Operate
for
Gatherco, Inc./Malta Compressor Station

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Authorization

Facility ID: 1576001924
Application Number(s): A0043883, A0045692
Permit Number: P0109560
Permit Description: Initial PTIO for a portable natural gas compressor engine, equipped with a catalytic converter.
Permit Type: Initial Installation
Permit Fee: $200.00
Issue Date: 10/15/2012
Effective Date: 10/15/2012
Expiration Date: 10/15/2022
Permit Evaluation Report (PER) Annual Date: Jan 1 - Dec 31, Due Feb 15

This document constitutes issuance to:

Gatherco, Inc./Malta Compressor Station
County Rd 40
Penn Twp., OH 43758

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

Ohio EPA District Office or local air agency responsible for processing and administering your permit:

Canton City Health Department
420 Market Avenue
Canton, OH 44702-1544
(330)489-3385

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

Authorization (continued)

Permit Number: P0109560
Permit Description: Initial PTIO for a portable natural gas compressor engine, equipped with a catalytic converter.

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

Emissions Unit ID:	**P001**
Company Equipment ID:	Malta Compressor Station
Superseded Permit Number:	
General Permit Category and Type:	Not Applicable

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 takenby 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 Canton City Health Department 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[1] 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.

[1]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.

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. The Ohio EPA has determined that this facility may be subject to the requirements of an area source MACT/GACT rule that the Ohio EPA does not have the delegated authority to implement. Although Ohio EPA has determined that an area source MACT (also known as the GACT) may apply, 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 these rules are in effect and are enforceable by U.S. EPA. For more information on the area source rules, please refer to the follow U.S. EPA website: http://www.epa.gov/ttn/atw/area/arearules.html.

C. Emissions Unit Terms and Conditions

1. P001, Malta Compressor Station

Operations, Property and/or Equipment Description:

Portable 276 bhp (@1,800 RPM), 2.05 MMBtu/hr Caterpillar Model G3406 TA, 4-stroke rich burn (4SRB), spark ignition (SI), natural gas-fired internal combustion engine, driving a pump or compressor, manufactured April 2012 and installed in October 2012 and using a catalytic converter to control NOx, CO and VOC.

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

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

a. None.

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

a. 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.	40 CFR Part 60, Subpart JJJJ (40 CFR 60.4230-4248) In accordance with 40 CFR 60.4230, this emissions unit is subject to the New Source Performance Standards (NSPS) for Stationary Spark Ignition (SI) Internal Combustion Engines (ICE). 40 CFR 60.4233(e) Table 1 to Part 60, Subpart JJJJ	Nitrogen oxide (NOx) emissions shall not exceed 1.0 grams per horsepower hour (g/hp-hr), or 82 parts per million, volumetric dry (ppmvd) at 15% oxygen; Carbon monoxide (CO) emissions shall not exceed 2.0 g/hp-hr, or 270 ppmvd at 15% oxygen; Volatile organic compound (VOC) emissions shall not exceed 0.7 g/hp-hr, or 60 ppmvd at 15% oxygen. See b)(2)e, b)(2)f, c)(1), and c)(2).

	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
b.	OAC rule 3745-31-05(A)(3), as effective 11/30/01 [BAT for pollutants less than 10 tons per year]	NOx emissions shall not exceed 0.3 pounds per million British thermal unit (lbs/MMBtu) and 2.7 tons per year; CO emissions shall not exceed 0.6 lbs/MMBtu and 5.4 tons per year; VOC emissions shall not exceed 0.2 lb/MMBtu and 1.8 tons per year. Compliance with this rule also includes compliance with 40 CFR Part 60, Subpart JJJJ. See b)(2)a and b)(2)b.
c.	OAC rule 3745-31-05(A)(3), as effective 12/01/06 [Less than 10 tons per year BAT exemptions]	See b)(2)c.
d.	OAC rule 3745-17-11(B)(5)(a)	Particulate emissions (PE) shall not exceed 0.310 pound/million BTU actual heat input. See f)(1)d.
e.	OAC rule 3745-17-07(A)(1)	Visible emissions (PE) from the exhaust stack serving this emission unit shall not exceed 20% opacity as a six-minute average, except as provided by the rule.
f.	OAC rule 3745-18-06 OAC rule 3745-18-82	Exempt, See b)(2)d.
g.	40 CFR Part 60, Subpart A (40 CFR 60.1-19) 40 CFR 60.4246	Table 3 to Subpart JJJJ of 40 CFR Part 60 - Applicability of General Provisions.

(2) Additional Terms and Conditions

a. Best Available Technology (BAT) has been determined to be compliance with the operational restrictions in c)(2) and (3) below and compliance with the terms and conditions of this permit.

b. The permittee has satisfied the Best Available Technology (BAT) requirements pursuant to OAC paragraph 3745-31-05(A)(3), as effective November 30, 2001, in this permit identified in b)(1)b above. On December 1, 2006, paragraph (A)(3) of OAC rule 3745-31-05 was revised to conform to the Ohio Revised Code (ORC) changes effective August 3, 2006 (Senate Bill 265 changes), such that

BAT is no longer required by State regulations for National Ambient Air Quality Standard (NAAQS) pollutant(s) less than ten tons per year. However, that rule revision has not yet been approved by the 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 revisions to OAC rule 3745-31-05, the requirement to satisfy BAT still exist 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 the emission limitations/control measures in b)(1)b. above no longer apply.

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 State Implementation Plan (SIP).

The BAT requirements under OAC rule 3745-31-05(A)(3) do not apply to NOx, CO and VOC emissions from this air contaminant source since the calculated annual emission rate for NOx, CO and VOC is less than 10 tons per year taking into account the federally enforceable rule limits specified in b)(1)a. above pursuant to 40 CFR Part 60 Subpart JJJJ.

d. This emission unit is exempt from the requirements of OAC rules 3745-18-06 and 3745-18-82 in accordance with OAC rule 3745-18-06(A) since only natural gas is used, and in accordance with OAC rule 3745-18-06(B) since this units heat input is less than 10 MMBtu/hr.

e. The stationary spark ignition (SI) internal combustion engine (ICE) is subject to and shall be operated in compliance with the requirements of 40 CFR Part 60, Subpart JJJJ, standards of performance for stationary SI ICE.

f. The owner/operator of an SI ICE shall demonstrate compliance with the emissions standards identified in 40 CFR 60.4233 in accordance with 40 CFR 60.4243(b).

c) Operational Restrictions

(1) The stationary SI ICE shall be installed, operated and maintained according to the manufacturer's recommendations or in accordance with the operator's Operation and Maintenance (O&M) Plan and, to the extent practicable, in a manner consistent with good air pollution control practice for minimizing emissions. The permittee shall operate and maintain the stationary SI ICE to achieve the emission standards identified in 40 CFR 60.4233 over the entire life of the engine. The air-to-fuel ratio controllers shall be set by the operator according to the manufacturer's operations manual, to ensure proper operation of the engines and their control device (catalytic converter) and to minimize emissions.

(2) The permittee shall operate this emission unit while using the catalytic converter to control emissions at all times.

(3) The permittee shall burn only natural gas in this emission unit.

d) Monitoring and/or Recordkeeping Requirements

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

(2) The permittee shall comply with the applicable monitoring and recordkeeping requirements under 40 CFR Part 60, Subpart JJJJ including the following sections:

60.4245(a)(1)	All notifications submitted to comply with this subpart and documentation supporting any notifications
60.4245(a)(2)	Maintenance conducted on the engine
60.4245(a)(4)	Testing results from the initial performance test conducted to meet the requirements of 40 CFR 60.4243(b)(2)(ii)

e) Reporting Requirements

(1) The reports required by this permit may be submitted through the Ohio EPA's eBusiness Center: Air Services online web portal; or they may be mailed as a hard copy to the appropriate district office or local air agency.

(2) Annual Permit Evaluation Report (PER) forms will be mailed to the permittee at the end of the reporting period specified in the Authorization section of this permit. The permittee shall submit the PER in the form and manner provided by the director by the due date identified in the Authorization section of this permit. The permit evaluation report shall cover a reporting period of no more than twelve-months for each air contaminant source identified in this permit.

(3) The permittee shall submit deviation (excursion) reports that identify each day when a fuel other than natural gas was burned in this emissions unit. Each report shall be submitted within 30 days after the deviation occurs.

(4) For each natural gas SI ICE not certified to the applicable emission standards identified in 40 CFR Part 60 Subpart JJJJ, and subject to the performance testing requirements of 40 CFR 60.4243(b)(2), the permittee shall submit a copy of the results of each performance test conducted to demonstrate compliance within 60 days after the test has been completed. See f)(2).

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:

Nitrogen oxide (NOx) emissions shall not exceed 1.0 g/hp-hr or 82 ppmvd at 15% oxygen

NOx emissions shall not exceed 0.3 lbs/MMBtu and 2.7 tons per year.

Applicable Compliance Method:

The g/HP-hr and ppmvd limits are the emission limitations from Table 1 to 40 CFR Part 60, Subpart JJJJ, the exhaust emission standards for natural gas engines greater than or equal to 100 HP and less than 500 HP, manufactured on or after 1/1/11. Based on the exhaust dataprovided by the permittee, this engine being equipped with the catalytic converter, is designed to meet these emission limits.

The lbs/MMBtuNOx emission limit was established by setting the limit equal to the Table 1 to 40 CFR Part 60, Subpart JJJJ emission factor, 1.0 g/hp-hr, converted to lbs/MMBtu as shown below. This value represents the potential to emit of the unit. The Table 1 emission factor was converted to lbs/MMBtu by multiplying 1.0 g/hp-hr by 276 hp, the power output rating of the unit, then dividing it by the maximum heat input rating per hour (2.05 MMBtu/hr) and then dividing by the conversion factor of 453.6 g/lb, as shown below.

(1.0 g/hp-hr) x (276 hp) ÷ (2.05 MMBtu/hr) ÷ (453.6 g/lb) = 0.3 lb/MMBtu

The annual emission limit was established by multiplying the lb/MMBtu emission limitation by the maximum heat input rating per hour and the maximum operating schedule of 8760 hours per year, then divide by 2,000 lbs/ton to yield the tons of NOx per year value, as shown below.

(0.3 lb/MMBtu) x (2.05 MMBtu/hr) x (8760 hr/yr) ÷ (2000 lbs/ton) = 2.7 tons/yr

Therefore, provided compliance is shown with the lb/MMBtu limitation, compliance shall also be shown with the annual limitation.

Actual emissions can be calculated using a similar methodology as shown above by substituting the maximum values with the actual natural gas usage, actual heat input measurements, and actual operating hours.

When required, per f)(2), the permittee shall demonstrate compliance with the NOx limitation according to the requirements of 40 CFR 60.4244, using the applicable test methods in Table 2 to 40 CFR Part 60, Subpart JJJJ. The permittee shall demonstrate continued compliance by maintaining the engine according to c)(1) and the recordkeeping per d)(2).

b. Emission Limitations:

Carbon monoxide (CO) emissions shall not exceed 2.0 g/hp-hr or 270 ppmvd at 15% oxygen;

CO emissions shall not exceed 0.6 lbs/MMBtu and 5.4 tons per year.

Applicable Compliance Method:

The g/HP-hr and ppmvd limits are the emission limitations from Table 1 to 40 CFR Part 60, Subpart JJJJ, the exhaust emission standards for natural gas engines greater than or equal to 100 HP and less than 500 HP, manufactured on or after 1/1/11. Based on the exhaust data provided by the permittee, this engine being equipped with the catalytic converter, is designed to meet these emission limits.

The lbs/hr CO emission limit was established by setting the limit equal to the Table 1 to 40 CFR Part 60, Subpart JJJJ emission factor, 2.0 g/hp-hr, converted to lbs/MMBtu as shown below. This value represents the potential to emit of the unit. The Table 1 emission factor was converted to lbs/MMBtu by multiplying 2.0 g/hp-hr by 276 hp, the power output rating of the unit, then dividing it by the maximum heat input rating per hour (2.05 MMBtu/hr) and then dividing by the conversion factor of 453.6 g/lb, as shown below.

(2.0 g/hp-hr) x (276 hp) ÷ (2.05 MMBtu/hr) ÷ (453.6 g/lb) = 0.6 lb/MMBtu

The annual emission limit was established by multiplying the lb/MMBtu emission limitation by the maximum heat input rating per hour and the maximum operating schedule of 8760 hours per year, then divide by 2,000 lbs/ton to yield the tons of CO per year value, as shown below.

(0.6 lb/MMBtu) x (2.05 MMBtu/hr) x (8760 hr/yr) ÷ (2000 lbs/ton) = 5.4 tons/yr

Therefore, provided compliance is shown with the lb/hr limitation, compliance shall also be shown with the annual limitation.

Actual emissions can be calculated using a similar methodology as shown above by substituting the maximum values with the actual natural gas usage, actual heat input measurements, and actual operating hours.

When required, per f)(2), the permittee shall demonstrate compliance with the CO limitation according to the requirements of 40 CFR 60.4244, using the applicable test methods in Table 2 to 40 CFR Part 60, Subpart JJJJ. The permittee shall demonstrate continued compliance by maintaining the engine according to c)(1) and the recordkeeping per d)(2).

c. Emission Limitations:

Volatile organic compounds (VOC) emissions shall not exceed 0.7 g/hp-hr or 60 ppmvd at 15% oxygen;

VOC emissions shall not exceed 0.2 lbs/MMBtu and 1.8 tons per year.

Applicable Compliance Method:

The g/HP-hr and ppmvd limits are the emission limitations from Table 1 to 40 CFR Part 60, Subpart JJJJ, the exhaust emission standards for natural gas engines greater than or equal to 100 HP and less than 500 HP, manufactured on or after 1/1/11. Based on the exhaust data provided by the permittee, this engine being equipped with the catalytic converter, is designed to meet these emission limits.

The lbs/MMBtu VOC emission limit was established by setting the limit equal to the Table 1 to 40 CFR Part 60, Subpart JJJJ emission factor, 0.7 g/hp-hr, converted to lbs/MMBtu as shown below. This value represents the potential to emit of the unit. The Table 1 emission factor was converted to lbs/MMBtu by multiplying 0.7 g/hp-hr by 276 hp, the power output rating of the unit, then dividing it by the maximum heat input rating per hour (2.05 MMBtu/hr) and then dividing by the conversion factor of 453.6 g/lb, as shown below.

(0.7 g/hp-hr) x (276 hp) ÷ (2.05 MMBtu/hr) ÷ (453.6 g/lb) = 0.2 lb/MMBtu

The annual emission limit was established by multiplying the lb/MMBtu emission limitation by the maximum heat input rating per hour and the maximum operating schedule of 8760 hours per year, then divide by 2,000 lbs/ton to yield the tons of VOC per year value, as shown below.

(0.2 lb/MMBtu) x (2.05 MMBtu/hr) x (8760 hr/yr) ÷ (2000 lbs/ton) = 1.8 tons/yr

Therefore, provided compliance is shown with the lb/hr limitation, compliance shall also be shown with the annual limitation.

Actual emissions can be calculated using a similar methodology as shown above by substituting the maximum values with the actual natural gas usage, actual heat input measurements, and actual operating hours.

When required, per f)(2), the permittee shall demonstrate compliance with the VOC limitation according to the requirements of 40 CFR 60.4244, using the applicable test methods in Table 2 to 40 CFR Part 60, Subpart JJJJ. The permittee shall demonstrate continued compliance by maintaining the engine according to c)(1) and the recordkeeping per d)(2).

d. Emission Limitations:

Particulate Emissions (PE) shall not exceed 0.310 pound/million BTU actual heat input.

Applicable Compliance Method:

AP-42, Chapter 3.2 for Natural Gas-fired Reciprocating Engines, Table 3.2-3, "Uncontrolled Emission Factors for 4-Stroke Rich-Burn Engines" (7/00) lists the emission factor for $PM_{10(filterable)}$ as0.00950 lb/MMBtu and the emission factor for $PM_{Condensable}$ as 0.00991 lb/MMBtu. Adding together $PM_{10(Filterable)}$ and $PM_{Condensable}$gives you an emission factor of 0.01941 lb/MMBtu, which represents the total particulate emissions (PE) from this emission unit, as shown below.

$PM_{10(Filterable)} + PM_{Condensable} = PE$

0.00950 lb$PM_{10(filterable)}$/MMBtu + 0.00991 lb$PM_{Condensable}$/MMBtu = 0.01941 lb PE/MMBtu

Because 0.01941 lb PE/MMBtu actual heat input is less than the 0.310 lb PE/MMBtu actual heat input limitation, compliance with this limit is shown.

e. Emissions Limitation:

Visible particulate emissions (PE) from the exhaust stack shall not exceed 20% opacity, as a 6-minute average except as provided by rule.

Applicable Compliance Method:

If required, compliance with the visible emission limitation above shall be determined in accordance with the methods specified in OAC rule 3745-17-03(B)(1).

(2) For a natural gas engine purchased without an EPA certificate of conformity, the permittee shall conduct or have conducted performance tests in accordance with the following requirements:

a. The initial performance test shall be conducted within one year of engine startup.

b. The performance test shall be conducted to demonstrate compliance with the 40 CFR Part 60, Subpart JJJJ emission limitations for NOx, CO and VOC listed in b)(1)a. above.

c. The performance test shall be conducted in accordance with the requirements specified in 40 CFR 60.4244 and using the applicable test methods and requirements in Table 2 to 40 CFR Part 60, Subpart JJJJ.

d. Three separate test runs must be conducted for each performance test required. Each test run must be conducted within 10 percent of 100 percent peak (or highest achievable) load and last at least one hour.

e. Performance tests must not be conducted during periods of startup, shutdown, or malfunction. If the stationary SI internal combustion engine is non-operational, you do not need to startup the engine solely to conduct a performance test; however you must conduct the performance test immediately upon startup of the engine.

f. Not later than 30 days prior to the proposed test date, the permittee shall submit an "Intent to Test" notification to the appropriate district office or local air agency. The "Intent to Test" notification shall describe in detail the proposed test methods and procedures, the emission unit operating parameters, the time and date of the testing and the person(s) who will be conducting the resting. Failure to submit such notification for review and approval prior to the testing may result in refusal to accept the results of the emission testing.

g. Personnel from the appropriate district office or local air agency shall be permitted to witness the testing, examine the testing equipment, and acquire data and information necessary to ensure that the operation of the emission unit and testing procedures provide a valid characterization of the emissions from the emission unit and/or performance of the control equipment.

h. A comprehensive written report on the results of each performance test, as conducted in accordance with 40 CFR 60.4244, shall be signed by the person or persons responsible for the test and submitted to the appropriate district office or local air agency within 60 days after the test has been completed.

[40 CFR 60.8, 40 CFR 60.4243(b)(2) and 40 CFR 60.4244]

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. thepermittee 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.