

Facility ID: 0744000152 Issuance type: Final State Permit To Operate

This version of facility specific terms and conditions was converted from a database format to an HTML file during an upgrade of the Ohio EPA, Division of Air Pollution Control's permitting software. Every attempt has been made to convert the terms and conditions to look and substantively conform to the permit issued or being drafted in STARS. However, the format of the terms may vary slightly from the original. In addition, although it is not expected, there is a slight possibility that a term and condition may have been inadvertently "left out" of this reproduction during the conversion process. Therefore, if this version is to be used as a starting point in drafting a new version of a permit, it is imperative that the entire set of terms and conditions be reviewed to ensure they substantively mimic the issued permit. The official version of any permit issued final by Ohio EPA is kept in the Agency's Legal section. The Legal section may be contacted at (614) 644-3037.

In addition to the terms and conditions, hyperlinks have been inserted into the document so you may more readily access the section of the document you wish to review.

Finally, the term language under "Part II" and before "A. Applicable Emissions Limitations..." has been added to aid in document conversion, and was not part of the original issued permit.

\*\*\*THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION\*\*\*

Facility ID: 0744000152 Emissions Unit ID: P003 Issuance type: Final State Permit To Operate

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**Part II - Special Terms and Conditions**

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.

**A. Applicable Emissions Limitations and/or Control Requirements**

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
P003 - portable 405 hp Caterpillar G-3408TAA natural gas fired internal combustion compressor engine with catalytic converter	OAC rule 3745-31-05(A)(3) (PTI 07-00551)	Nitrogen oxides (NOx) emissions shall not exceed 0.89 lb/hr and 3.90 tpy.
		Carbon monoxide (CO) emissions shall not exceed 0.89 lb/hr and 3.90 tpy.
		Volatile organic compounds (VOC) emissions shall not exceed 0.13 lb/hr and 0.57 tpy.
		Particulate emissions (PE) shall not exceed 4.25 tpy.
		See section A.2.a below.
		The requirements of this rule also include compliance with the requirements of OAC rule 3745-17-07(A), OAC rule 3745-17-11(B)(5)(a), OAC rule 3745-21-08(B) and OAC rule 3745-23-06(B).
		Visible particulate emissions from any stack shall not exceed 20% opacity as a 6-minute average, except as provided by the rule.
	OAC rule 3745-17-07(A)	PE shall not exceed 0.25 lb/mmBtu of actual heat input.
	OAC rule 3745-17-11(B)(5)(a)	See section A.2.b below.
	OAC rule 3745-17-11(B)(5)(a)	PE shall not exceed 0.310 lb/mmBtu of actual heat input.
	OAC rule 3745-18-06(G)	See section A.2.c below.
	OAC rule 3745-21-08(B)	This emissions unit is exempt from the requirements of OAC rule 3745-18-06 pursuant to OAC rule 3745-18-06(B).
	OAC rule 3745-23-06(B)	See section A.2.d below.
		See section A.2.e below.

**2. Additional Terms and Conditions**

- (a) The hourly emission limitations were established to reflect the potentials to emit for this emissions unit. Therefore, it is not necessary to develop record keeping and/or reporting requirements to ensure compliance with these emission limitations. The requirement to comply with this particulate emission limitation shall terminate on the date the U.S. EPA approves the 0.310 lb/mmBtu actual heat input emission limitation as a revision to the Ohio SIP for particulate matter. This particulate emission limitation shall be effective and federally enforceable on the date the U.S. EPA approves this particulate emission limitation as a revision to the Ohio SIP for particulate matter. The permittee has satisfied the "best available control techniques and operating practices" required

pursuant to OAC rule 3745-21-08(B) by committing to comply with the best available technology requirements established pursuant to OAC rule 3745-31-05(A)(3) in Permit to Install 07-00551.

On November 5, 2002, OAC rule 3745-21-08 was revised to delete paragraph (B); therefore, paragraph (B) is no longer part of the State regulations. However, that rule revision has not yet been submitted to 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 3745-21-08, the requirement to satisfy the "best available control techniques and operating practices" still exists as part of the federally-approved SIP for Ohio.

The permittee has satisfied the "latest available control techniques and operating practices" required pursuant to OAC rule 3745-23-06(B) by committing to comply with the best available technology requirements established pursuant to OAC rule 3745-31-05(A)(3) in Permit to Install 07-00551.

On February 15, 2005, OAC rule 3745-23-06 was rescinded; therefore, this rule is no longer part of the State regulations. This rule revision was submitted to 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 revision to OAC rule 3745-23-06, the requirement to satisfy the "latest available control techniques and operating practices" still exists as part of the federally-approved SIP for Ohio.

**B. Operational Restrictions**

1. The permittee shall burn only natural gas in this emissions unit.

**C. Monitoring and/or Record Keeping Requirements**

1. For each day 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.  
For each day 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.

**D. Reporting Requirements**

1. 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.

**E. Testing Requirements**

1. Compliance with the emission limitations in section A.1 of these terms and conditions shall be determined in accordance with the following methods:  
Emission Limitation:

NOx emissions shall not exceed 0.89 lb/hr.

Applicable Compliance Method:

The hourly emission limitation represents the potential to emit for this emissions unit based upon the manufacturer-supplied emission factor as shown in the following equation.

$$(1.0 \text{ g/hp-hr})(405 \text{ hp})(1 \text{ lb}/453.6 \text{ g}) = 0.89 \text{ lb/hr}$$

If required, the permittee shall demonstrate compliance by emission testing in accordance with the following methods: for NOx, Methods 1 through 4 and Method 7 of 40 CFR Part 60, Appendix A. Alternative USEPA-approved test methods may be used with prior approval from the Portsmouth Local Air Agency.

Emission Limitation:

NOx emissions shall not exceed 3.90 tpy.

Applicable Compliance Method:

The tpy emission limitation was developed by multiplying the short-term allowable NOx emission limitation (0.89 lb/hr) by the maximum annual hours of operation (8,760 hours), and then dividing by 2,000 lbs per ton. Therefore, if compliance is shown with the short-term allowable emission limitation, compliance shall also be shown with the annual emission limitation.

Emission Limitation:

CO emissions shall not exceed 0.89 lb/hr.

Applicable Compliance Method:

The hourly emission limitation represents the potential to emit for this emissions unit based upon the manufacturer-supplied emission factor as shown in the following equation.

$$(1.0 \text{ g/hp-hr})(405 \text{ hp})(1 \text{ lb}/453.6 \text{ g}) = 0.89 \text{ lb/hr}$$

If required, the permittee shall demonstrate compliance by emission testing in accordance with the following methods: for CO, Methods 1 through 4 and Method 10 of 40 CFR Part 60, Appendix A. Alternative USEPA-approved test methods may be used with prior approval from the Portsmouth Local Air Agency.

Emission Limitation:

CO emissions shall not exceed 3.90 tpy.

Applicable Compliance Method:

The tpy emission limitation was developed by multiplying the short-term allowable CO emission limitation (0.89 lb/hr) by the maximum annual hours of operation (8,760 hours), and then dividing by 2,000 lbs per ton. Therefore, if compliance is shown with the short-term allowable emission limitation, compliance shall also be shown with the annual emission limitation.

Emission Limitation:

VOC emissions shall not exceed 0.13 lb/hr.

Applicable Compliance Method:

The hourly emission limitation represents the potential to emit for this emissions unit based upon the manufacturer-supplied emission factor as shown in the following equation.

$$(0.15 \text{ g/hp-hr})(405 \text{ hp})(1 \text{ lb}/453.6 \text{ g}) = 0.13 \text{ lb/hr}$$

If required, the permittee shall demonstrate compliance by emission testing in accordance with the following methods: for VOC, Methods 1 through 4 and Method 25 or 25a of 40 CFR Part 60, Appendix A. Alternative USEPA-approved test methods may be used with prior approval from the Portsmouth Local Air Agency.  
Emission Limitation:

VOC emissions shall not exceed 0.57 tpy.

Applicable Compliance Method:

The tpy emission limitation was developed by multiplying the short-term allowable VOC emission limitation (0.13 lb/hr) by the maximum annual hours of operation (8,760 hours), and then dividing by 2,000 lbs per ton. Therefore, if compliance is shown with the short-term allowable emission limitation, compliance shall also be shown with the annual emission limitation.  
Emission Limitation:

PE shall not exceed 0.25 lb/mmBtu of actual heat input.  
PE shall not exceed 0.310 lb/mmBtu of actual heat input.

Applicable Compliance Method:

If required, the permittee shall demonstrate compliance by emission testing in accordance with the following methods: for particulates, Methods 1 through 5 of 40 CFR Part 60, Appendix A. Alternative USEPA-approved test methods may be used with prior approval from the Portsmouth Local Air Agency.  
Emission Limitation:

PE shall not exceed 4.25 tpy.

Applicable Compliance Method:

The tpy emission limitation was developed by multiplying the short-term allowable particulate emission limitation (0.310 lb/mmBtu) by the maximum heat input of the unit (3.14 mmBtu/hr) and by the maximum annual hours of operation (8,760 hours), and then dividing by 2,000 lbs per ton. Therefore, if compliance is shown with the short-term allowable emission limitation, compliance shall also be shown with the annual emission limitation.  
Emission Limitation:

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

Applicable Compliance Method:

If required, compliance shall be demonstrated based upon visible emission observations performed in accordance with the procedures specified in 40 CFR Part 60, Appendix A, Method 9.

**F. Miscellaneous Requirements**

1. Pursuant to OAC rule 3745-31-03(A)(1)(p), the permittee of a portable source may relocate within the State of Ohio without first obtaining a permit to install (PTI) providing certain criteria are met. The portable source shall meet one of the two following scenarios in order to qualify for this PTI exemption for the new location:  
The following determinations have been documented, pursuant to OAC rule 3745-31-03(A)(1)(p)(i):
  - i. the portable source is equipped with the best available technology for such portable source;
  - ii. the portable source is operating pursuant to a currently effective permit to install, permit to operate (PTO), or registration status;
  - iii. the applicant has provided proper notice of the intent to relocate the portable source to the (1.) Ohio EPA District Office or local air agency responsible for the permit(s) for the source and (2.) the appropriate Ohio EPA District Office or local air agency having jurisdiction over the new site within a minimum of 30 days prior to the scheduled relocation; and
  - iv. in the judgement of the Ohio EPA District Office or local air agency having jurisdiction over the new site, the proposed site is acceptable under OAC rule 3745-15-07.  
In the alternative, pursuant to OAC rule 3745-31-03(A)(1)(p)(ii), the permittee of a portable source may relocate within the State of Ohio without first obtaining a PTI, providing the following criteria of OAC rule 3745-31-05(E) are met:
    - i. the portable source permittee possesses an Ohio EPA PTI, PTO or registration status;
    - ii. the portable source is equipped with best available technology;
    - iii. the portable source owner has identified the proposed site to Ohio EPA;
    - iv. Ohio EPA has determined that the portable source, at the proposed site, will have an acceptable environmental impact;
    - v. a public notice, consistent with OAC Chapter 3745-47, is published in the county where the proposed site is located;

vi. the owner of the proposed site has provided the portable source owner with approval or equivalent declaration that it is acceptable to the site owner to move the portable source to this proposed site; and

vii. the portable source owner has provided Ohio EPA with 15 days written notice of the relocation.

Any site approvals issued by the Ohio EPA, pursuant to OAC rule 3745-31-03(A)(1)(p)(ii), shall be valid for no longer than 3 years and are subject to renewal.

In order for the permitting Ohio EPA District Office or local air agency and the appropriate field office having jurisdiction over the new site to determine compliance with all of the above criteria, the permittee of the portable source must file a " Notice of Intent to Relocate" within the specified time frame (30 or 15 days), prior to the relocation of the portable source with the Ohio EPA District Office or local air agency responsible for the permits for the source and the appropriate Ohio EPA District Office or local air agency having jurisdiction over the new site. Upon receipt of the notice, the Ohio EPA District Office or local air agency responsible for the permits for the portable source, and/or appropriate Ohio EPA District Office or local air agency having jurisdiction over the new site, will evaluate the request in accordance with the above criteria.

Failure to submit said notification and to receive Ohio EPA approval prior to relocation of the portable source may result in fines and civil penalties.

Pursuant to OAC rule 3745-31-05(F), the Director may modify the site approval to add or delete certain portable sources or add or delete certain terms and conditions as appropriate.