

Facility ID: 0285000418 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.

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[Go to Part II for Emissions Unit B002](#)

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Facility ID: 0285000418 Emissions Unit ID: B001 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>
stationary 225 HP John Deere, PowerTech 6068HF250 diesel engine (137 kW)	OAC rule 3745-31-05(A)(3) (PTI 02-21091mod1 Effective 10/4/2005)	0.40 lb/hr and 1.76 TPY of particulate emissions (PE)/PM less than 10 microns in diameter (PM-10).
		0.38 lb/hr and 1.64 TPY of sulfur dioxide (SO2). Also includes B.1 below.
		2.78 lbs/hr and 12.16 TPY of nitrogen dioxides (NOx).
		3.43 lb/hr and 15.0 TPY of carbon monoxide (CO).
		0.40 lb/hr and 1.74 TPY of organic compounds (OC).
		Visible particulate emissions from the stack serving this emissions unit shall not exceed 10% opacity, as a six-minute average.
		See also A.2.c and B.2 below.
		The requirements of this rule also include compliance with the requirements of OAC rule 3745-17-11(B)(5)(a).
	OAC rule 3745-17-11(B)(5)(a)	0.31 lb/mmBtu of particulate emissions.
	OAC rule 3745-17-07(A)(1)	The opacity limitation specified in this rule is less stringent than the limit established pursuant to OAC rule 3745-31-05(A)(3).
	OAC rule 3745-18-06(G)	See section A.2.b below.

2. Additional Terms and Conditions

- (a) In accordance with OAC rule 3745-31-05(A)(3), best available technology for this emissions unit includes the emissions limitations and fuel sulfur content restriction. This emissions unit is exempt from the requirements of OAC rule 3745-18-06 pursuant to OAC rule 3745-18-06(B). The total power output for B001 is derated from 225 horsepower to 183 horsepower. The derated total output of 183 horsepower corresponds to a 1800 revolutions per minute and limited by the associated hydraulic pumps.

B. Operational Restrictions

1. The permittee shall use only diesel fuel/number 2 fuel oil with a maximum sulfur content of 0.5 percent by weight for combustion in this emissions unit.
2. At no time shall the output from B001 exceed 1800 rpm.

C. Monitoring and/or Record Keeping 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 documentation of the sulfur content of all fuels received.
3. The permittee shall document any change in the operation of the associated equipment that enables the output of emissions unit B001 to exceed 1800 rpm.

D. Reporting Requirements

1. The permittee shall submit deviation (excursion) reports that identify each day during which a fuel other than diesel fuel with a maximum sulfur content of 0.5 percent by weight was burned in this emissions unit. Each report shall be submitted within 30 days of the deviation.
2. The permittee shall submit deviation (excursion) reports that identify any change in the operation of the associated equipment that allows the output of B001 to exceed 1800 rpm. Each report shall be submitted within 30 days of the deviation.
3. The reports shall include what corrective action was taken and shall be sent to the Director (Ohio EPA Northeast District Office) within 30 days following the exceedance.

E. Testing Requirements

1. Compliance with the emission limitations specified in section A.1. of these terms and conditions shall be determined in accordance with the following methods:
Emission Limitations:
0.40 lb/hr and 1.76 TPY of PM/PM-10.

Applicable Compliance Methods:

Compliance with the hourly emission limitation and annual limitation is based upon compliance with the emission limitation specified in OAC rule 3745-17-11(B)(5)(a).

Emission Limitations:
0.38 lb/hr and 1.64 TPY of SO₂.

Applicable Compliance Methods:

Compliance with the hourly emission limitations above shall be determined by multiplying 0.00205 lb/hp-hr, the emission factors specified in AP-42 "Compilation of Air Pollutant Emission Factors," Table 3.3-1 (10/96), by 183 hp, the power output rating of this unit.

Compliance with the annual emission limitations shall be determined by multiplying the hourly emission rate determined above by 8760, the maximum hours of operation, and dividing by 2,000 lbs/ton.

Emission Limitations:
2.78 lbs/hr and 12.16 TPY of NO_x.

Applicable Compliance Methods:

Compliance with the hourly emission limitations above shall be determined by multiplying 0.02026 lb/kW-hr, the emission factor provided by the manufacturer for this model year and engine family, by 137 kW, the power output rating of this unit.

Compliance with the annual emission limitations shall be determined by multiplying the hourly emission rate determined above by 8760, the maximum hours of operation, and dividing by 2,000 lbs/ton.

Emission Limitations:
3.43 lbs/hr and 15.0 TPY of CO.

Applicable Compliance Methods:

Compliance with the hourly emission limitations above shall be determined by multiplying 0.025 lb/kW-hr, the emission factor provided by the manufacturer for this model year and engine family, by 137 kW, the power output rating of this unit.

Compliance with the annual emission limitations shall be determined by multiplying the hourly emission rate determined above by 8760, the maximum hours of operation, and dividing by 2,000 lbs/ton.

Emission Limitations:
0.40 lb/hr and 1.74 TPY of OC.

Applicable Compliance Methods:

Compliance with the hourly emission limitations above shall be determined by multiplying 0.0029 lb/kW-hr, the emission factor provided by the manufacturer for this model year and engine family, by 137 kW, the power output rating of this unit.

Compliance with the annual emission limitations shall be determined by multiplying the hourly emission rate determined above by 8760, the maximum hours of operation, and dividing by 2,000 lbs/ton.

Emission Limitation:
Visible particulate emissions from the stack serving this emissions unit shall not exceed 10% opacity, as a six-minute average.

Applicable Compliance Method:

If required, compliance with the opacity limitation shall be determined using Method 9 of 40 CFR, Part 60, Appendix A.

Emission Limitation:
0.310 lb/MMBTU of particulate emissions

Applicable Compliance Method:

If required compliance shall be determined according to OAC rule 3745-17-03(B)(10), (Method 5, 40 CFR 60, Appendix A).

F. Miscellaneous Requirements

1. None

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Facility ID: 0285000418 Emissions Unit ID: B002 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>
stationary 109 HP John Deere diesel engine, Powertech model 4045HF150 (81 kW)	OAC rule 3745-31-05(A)(3) (PTI 02-21091mod1 Effective 10/4/2005)	0.24 lb/hr and 1.05 TPY of particulate emissions (PE)/PM less than 10 microns in diameter (PM-10).
		0.22 lb/hr and 0.98 TPY of sulfur dioxide (SO2). Also includes B.1 below.
		1.64 lbs/hr and 7.19 TPY of nitrogen dioxides (NOx).
		0.73 lb/hr and 3.19 TPY of carbon monoxide (CO).
		0.27 lb/hr and 1.20 TPY of organic compounds (OC).
		Visible particulate emissions from the stack serving this emissions unit shall not exceed 10% opacity, as a six-minute average.
		See also A.2.a and B.2 below.
		The requirements of this rule also include compliance with the requirements of OAC rule 3745-17-11(B)(5)(a).
	OAC rule 3745-17-11(B)(5)(a)	0.31 lb/mmBtu of particulate emissions.
	OAC rule 3745-17-07(A)(1)	The opacity limitation specified in this rule is less stringent than the limit established pursuant to OAC rule 3745-31-05(A)(3).
	OAC rule 3745-18-06(G)	See section A.2.b below.

2. Additional Terms and Conditions

- (a) In accordance with OAC rule 3745-31-05(A)(3), best available technology for this emissions unit includes the emissions limitations and fuel sulfur content restriction. This emissions unit is exempt from the requirements of OAC rule 3745-18-06 pursuant to OAC rule 3745-18-06(B). The total power output for B001 is derated from 140 horsepower to 109 horsepower. The derated total output of 109 horsepower corresponds to a 1800 revolutions per minute and limited by the associated hydraulic pumps.

B. Operational Restrictions

1. The permittee shall use only diesel fuel/number 2 fuel oil with a maximum sulfur content of 0.5 percent by weight for combustion in this emissions unit.
2. At no time shall the output from B001 exceed 1800 rpm.

C. Monitoring and/or Record Keeping 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 documentation of the sulfur content of all fuels received.

3. The permittee shall document any change in the operation of the associated equipment that enables the output of emissions unit B001 to exceed 1800 rpm.

D. Reporting Requirements

1. The permittee shall submit deviation (excursion) reports that identify each day during which a fuel other than diesel fuel with a maximum sulfur content of 0.5 percent by weight was burned in this emissions unit. Each report shall be submitted within 30 days of the deviation.
2. The permittee shall submit deviation (excursion) reports that identify any change in the operation of the associated equipment that allows the output of B001 to exceed 1800 rpm. Each report shall be submitted within 30 days of the deviation.
3. The reports shall include what corrective action was taken and shall be sent to the Director (Ohio EPA Northeast District Office) within 30 days following the exceedance.

E. Testing Requirements

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

Emission Limitations:

0.24 lb/hr and 1.05 TPY of PM/PM-10.

Applicable Compliance Methods:

Compliance with the hourly emission limitation and annual limitation is based upon compliance with the emission limitation specified in OAC rule 3745-17-11(B)(5)(a).

Emission Limitations:

0.22 lb/hr and 0.98 TPY of SO₂.

Applicable Compliance Methods:

Compliance with the hourly emission limitations above shall be determined by multiplying 0.00205 lb/hp-hr, the emission factors specified in AP-42 "Compilation of Air Pollutant Emission Factors," Table 3.3-1 (10/96), by 109 hp, the power output rating of this unit.

Compliance with the annual emission limitations shall be termed by multiplying the hourly emission rate determined above by 8760, the maximum hours of operation, and dividing by 2,000 lbs/ton.

Emission Limitations:

1.64 lbs/hr and 7.19 TPY of NO_x

Applicable Compliance Methods:

Compliance with the hourly emission limitations above shall be determined by multiplying 0.02026 lb/kW-hr, the emission factor provided by the manufacturer for this model year and engine family, by 81 kW, the power output rating of this unit.

Compliance with the annual emission limitations shall be termed by multiplying the hourly emission rate determined above by 8760, the maximum hours of operation, and dividing by 2,000 lbs/ton.

Emission Limitations:

0.73 lbs/hr and 3.19 TPY of CO

Applicable Compliance Methods:

Compliance with the hourly emission limitations above shall be determined by multiplying 0.00668 lb/hp-hr, the emission factors specified in AP-42 "Compilation of Air Pollutant Emission Factors," Table 3.3-1 (10/96), by 109 hp, the power output rating of this unit.

Compliance with the annual emission limitations shall be termed by multiplying the hourly emission rate determined above by 8760, the maximum hours of operation, and dividing by 2,000 lbs/ton.

Emission Limitations:

0.27 lb/hr and 1.20 TPY of OC.

Applicable Compliance Methods:

Compliance with the hourly emission limitations above shall be determined by multiplying 0.00251 lb/hp-hr, the emission factors specified in AP-42 "Compilation of Air Pollutant Emission Factors," Table 3.3-1 (10/96), by 109 hp, the power output rating of this unit.

Compliance with the annual emission limitations shall be termed by multiplying the hourly emission rate determined above by 8760, the maximum hours of operation, and dividing by 2,000 lbs/ton.

Emission Limitation:

Visible particulate emissions from the stack serving this emissions unit shall not exceed 10% opacity, as a six-minute average.

Applicable Compliance Method:

If required, compliance with the opacity limitation shall be determined using Method 9 of 40 CFR, Part 60, Appendix A.

Emission Limitation:

0.310 lb/MMBTU of particulate emissions

Applicable Compliance Method:

If required compliance shall be determined according to OAC rule 3745-17-03(B)(10), (Method 5, 40 CFR 60, Appendix A).

F. Miscellaneous Requirements

1. None