

Facility ID: 1431073183 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 B003](#)
[Go to Part II for Emissions Unit B004](#)

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Facility ID: 1431073183 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> |
|---|---|--|
| waste oil boiler | OAC rule 3745-31-05(A)(3) (PTI 14-04400) | PM*: 0.325 lb/mmBtu, 0.75 TPY NOx*: 2.81 lbs/hr, 4.36 TPY CO*: 0.64 lb/hr, 0.91 TPY SO2*: 12.50 lbs/hr, 9.22 TPY OC*: 0.087 lb/hr, 0.25 TPY Pb*: 0.0089 lb/hr, 0005 TPY |
| | | * emission limitations are for B001 through B004 combined |
| | OAC rule 3745-17-07(A) | See A.2. The visible emission limitation established in this rule is as stringent as that outlined in OAC rule 3745-31-05 (A)(3). |
| | OAC rule 3745-17-10(C) | The PM emission limitation given in this rule is less stringent than that outlined in OAC rule 3745-31-05 (A)(3). |

2. Additional Terms and Conditions

- (a) Visible particulate emissions shall not exceed 20% opacity, as a six minute average, except as provided by rule.

B. Operational Restrictions

1. All of the blended waste oil burned in this unit shall meet the following specifications:

Contaminant/Property Allowable Concentration

Arsenic 5 ppm, maximum
 Cadmium 2 ppm, maximum
 Chromium 5 ppm, maximum
 Lead 25 ppm, maximum
 PCBs 50 ppm, maximum
 Total Halogens 1000 ppm, maximum
 Mercury 1 ppm, maximum
 Flash Point 100 degrees, minimum
 Heat Content 135,000 Btu/gal, minimum
 Sulfur 6000 ppm, maximum

Used oil containing more than 1000 ppm total halogens is presumed to be a hazardous waste under the rebuttable presumption provided under paragraph C of OAC rule 3745-58-50. Therefore, the permittee may burn used oil exceeding 1000 ppm total halogens (but less than 4000 ppm) only if the permittee has demonstrated to the Ohio EPA's Division of Solid and Hazardous Waste Management that the used oil does not contain any hazardous waste.

- 2. The permittee shall have oil samples analyzed for the above parameters in January and in September of each year. The analysis shall be conducted by an independent laboratory. The Ohio EPA may obtain oil samples for additional analysis of the above parameters at anytime.
 - 3. The permittee shall operate the boilers for space heating only during the months of September through April (September through April = "season"). The amount of blended oil burned in B001 - B004 combined shall not exceed 200,000 gallons per season and shall not consist of more than 50,000 gallons per season of waste oil and 150,000 gallons per season of #4 fuel oil.
- C. Monitoring and/or Record Keeping Requirements**
- 1. The permittee shall maintain the following monthly records:
 - a. The quantity of blended oil burned, including a breakdown of how much waste oil and how much #4 fuel oil comprised the quantity of blended oil burned and
 - b. the results of any analytical tests performed for the blended oil.
- D. Reporting Requirements**
- 1. The permittee shall submit an annual report which summarizes the following information for the used oil burned: gallons burned per year and the annual emissions of PM, SO₂, NO_x, CO, and VOC in tons per year. This report shall be submitted by May 15 of each calendar year.
 - 2. Oil analysis reports shall be submitted to the Hamilton County Department of Environmental Services by February 15 and October 15 of each year.
- E. Testing Requirements**
- 1. Compliance with the emissions limitations in these terms and conditions shall be demonstrated by calculations based on AP-42 sections 1.3 (1998) and 1.11 (1996).
 - 2. Compliance with the visible emission limitations in these terms and conditions shall be determined in accordance with OAC rule 3745-17-03(B)(1).
 - 3. Compliance with the usage limitations in these terms and conditions shall be demonstrated by the required recordkeeping.
 - 4. Compliance with the oil specifications in these terms and conditions shall be demonstrated by the oil analyses conducted in January and September of each year. The analyses for sulfur content and heat content shall be performed in accordance with the following ASTM methods: ASTM method D4294, ASTM method D240, or ASTM method 6010 for sulfur content; and ASTM method D240 for heat content. Alternative, equivalent methods may be used upon written approval by the Hamilton County Department of Environmental Services.
- F. Miscellaneous Requirements**
- 1. In accordance with OAC rule 3745-31-05(A)(2), the permittee shall comply with all applicable laws as defined in OAC rule 3745-31-01(F). Therefore, this permit cannot exempt the permittee from any current or future regulations regarding the disposal or recycling of used oil, as they relate to this emissions unit.

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Facility ID: 1431073183 Emissions Unit ID: B003 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> |
|---|---|---|
| waste oil boiler | OAC rule 3745-31-05(A)(3) (PTI 14-04400) | PM*: 0.325 lb/mmBtu, 0.75 TPY NO _x *: 2.81 lbs/hr, 4.36 TPY CO*: 0.64 lb/hr, 0.91 TPY SO ₂ *: 12.50 lbs/hr, 9.22 TPY |

OC*: 0.087 lb/hr, 0.25 TPY
 Pb*: 0.0089 lb/hr, 0005 TPY

* emission limitations are for B001 through B004 combined

See A.2.

OAC rule 3745-17-07(A)

The visible emission limitation established in this rule is as stringent as that outlined in OAC rule 3745-31-05 (A)(3).

OAC rule 3745-17-10(C)

The PM emission limitation given in this rule is less stringent than that outlined in OAC rule 3745-31-05 (A)(3).

2. **Additional Terms and Conditions**

- (a) Visible particulate emissions shall not exceed 20% opacity, as a six minute average, except as provided by rule.

B. **Operational Restrictions**

- 1. All of the blended waste oil burned in this unit shall meet the following specifications:

Contaminant/Property Allowable Concentration

- Arsenic 5 ppm, maximum
- Cadmium 2 ppm, maximum
- Chromium 5 ppm, maximum
- Lead 25 ppm, maximum
- PCBs 50 ppm, maximum
- Total Halogens 1000 ppm, maximum
- Mercury 1 ppm, maximum
- Flash Point 100 degrees, minimum
- Heat Content 135,000 Btu/gal, minimum
- Sulfur 6000 ppm, maximum

Used oil containing more than 1000 ppm total halogens is presumed to be a hazardous waste under the rebuttable presumption provided under paragraph C of OAC rule 3745-58-50. Therefore, the permittee may burn used oil exceeding 1000 ppm total halogens (but less than 4000 ppm) only if the permittee has demonstrated to the Ohio EPA's Division of Solid and Hazardous Waste Management that the used oil does not contain any hazardous waste.

- 2. The permittee shall have oil samples analyzed for the above parameters in January and in September of each year. The analysis shall be conducted by an independent laboratory. The Ohio EPA may obtain oil samples for additional analysis of the above parameters at anytime.
- 3. The permittee shall operate the boilers for space heating only during the months of September through April (September through April = "season"). The amount of blended oil burned in B001 - B004 combined shall not exceed 200,000 gallons per season and shall not consist of more than 50,000 gallons per season of waste oil and 150,000 gallons per season of #4 fuel oil.

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

- 1. The permittee shall maintain the following monthly records:
 - a. The quantity of blended oil burned, including a breakdown of how much waste oil and how much #4 fuel oil comprised the quantity of blended oil burned and
 - b. the results of any analytical tests performed for the blended oil.

D. **Reporting Requirements**

- 1. The permittee shall submit an annual report which summarizes the following information for the used oil burned: gallons burned per year and the annual emissions of PM, SO₂, NO_x, CO, and VOC in tons per year. This report shall be submitted by May 15 of each calendar year.
- 2. Oil analysis reports shall be submitted to the Hamilton County Department of Environmental Services by February 15 and October 15 of each year.

E. **Testing Requirements**

- 1. Compliance with the emissions limitations in these terms and conditions shall be demonstrated by calculations based on AP-42 sections 1.3 (1998) and 1.11 (1996).
- 2. Compliance with the visible emission limitations in these terms and conditions shall be determined in accordance with OAC rule 3745-17-03(B)(1).
- 3. Compliance with the usage limitations in these terms and conditions shall be demonstrated by the required recordkeeping.
- 4. Compliance with the oil specifications in these terms and conditions shall be demonstrated by the oil analyses conducted in January and September of each year. The analyses for sulfur content and heat content shall be performed in accordance with the following ASTM methods: ASTM method D4294, ASTM method D240, or ASTM method 6010 for sulfur content; and ASTM method D240 for heat content. Alternative, equivalent methods may be used upon written approval by the Hamilton County Department of Environmental Services.

F. **Miscellaneous Requirements**

- 1. In accordance with OAC rule 3745-31-05(A)(2), the permittee shall comply with all applicable laws as defined in

OAC rule 3745-31-01(F). Therefore, this permit cannot exempt the permittee from any current or future regulations regarding the disposal or recycling of used oil, as they relate to this emissions unit.

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Facility ID: 1431073183 Emissions Unit ID: B004 Issuance type: Final State Permit To Operate

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 - (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> |
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| waste oil boiler | OAC rule 3745-31-05(A)(3) (PTI 14-04400) | PM*: 0.325 lb/mmBtu, 0.75 TPY NOx*: 2.81 lbs/hr, 4.36 TPY CO*: 0.64 lb/hr, 0.91 TPY SO2*: 12.50 lbs/hr, 9.22 TPY OC*: 0.087 lb/hr, 0.25 TPY Pb*: 0.0089 lb/hr, 0005 TPY |
| | | * emission limitations are for B001 through B004 combined |
| | OAC rule 3745-17-07(A) | See A.2. The visible emission limitation established in this rule is as stringent as that outlined in OAC rule 3745-31-05(A)(3). |
| | OAC rule 3745-17-10(C) | The PM emission limitation given in this rule is less stringent than that outlined in OAC rule 3745-31-05(A)(3). |

2. Additional Terms and Conditions

- (a) Visible particulate emissions shall not exceed 20% opacity, as a six minute average, except as provided by rule.

B. Operational Restrictions

1. All of the blended waste oil burned in this unit shall meet the following specifications:

Contaminant/Property Allowable Concentration

- Arsenic 5 ppm, maximum
- Cadmium 2 ppm, maximum
- Chromium 5 ppm, maximum
- Lead 25 ppm, maximum
- PCBs 50 ppm, maximum
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- Mercury 1 ppm, maximum
- Flash Point 100 degrees, minimum
- Heat Content 135,000 Btu/gal, minimum
- Sulfur 6000 ppm, maximum

Used oil containing more than 1000 ppm total halogens is presumed to be a hazardous waste under the rebuttable presumption provided under paragraph C of OAC rule 3745-58-50. Therefore, the permittee may burn used oil exceeding 1000 ppm total halogens (but less than 4000 ppm) only if the permittee has demonstrated to the Ohio EPA's Division of Solid and Hazardous Waste Management that the used oil does not contain any hazardous waste.

2. The permittee shall have oil samples analyzed for the above parameters in January and in September of each year. The analysis shall be conducted by an independent laboratory. The Ohio EPA may obtain oil samples for

additional analysis of the above parameters at anytime.

3. The permittee shall operate the boilers for space heating only during the months of September through April (September through April = "season"). The amount of blended oil burned in B001 - B004 combined shall not exceed 200,000 gallons per season and shall not consist of more than 50,000 gallons per season of waste oil and 150,000 gallons per season of #4 fuel oil.

C. Monitoring and/or Record Keeping Requirements

1. The permittee shall maintain the following monthly records:
 - a. The quantity of blended oil burned, including a breakdown of how much waste oil and how much #4 fuel oil comprised the quantity of blended oil burned and
 - b. the results of any analytical tests performed for the blended oil.

D. Reporting Requirements

1. The permittee shall submit an annual report which summarizes the following information for the used oil burned: gallons burned per year and the annual emissions of PM, SO₂, NO_x, CO, and VOC in tons per year. This report shall be submitted by May 15 of each calendar year.
2. Oil analysis reports shall be submitted to the Hamilton County Department of Environmental Services by February 15 and October 15 of each year.

E. Testing Requirements

1. Compliance with the emissions limitations in these terms and conditions shall be demonstrated by calculations based on AP-42 sections 1.3 (1998) and 1.11 (1996).
2. Compliance with the visible emission limitations in these terms and conditions shall be determined in accordance with OAC rule 3745-17-03(B)(1).
3. Compliance with the usage limitations in these terms and conditions shall be demonstrated by the required recordkeeping.
4. Compliance with the oil specifications in these terms and conditions shall be demonstrated by the oil analyses conducted in January and September of each year. The analyses for sulfur content and heat content shall be performed in accordance with the following ASTM methods: ASTM method D4294, ASTM method D240, or ASTM method 6010 for sulfur content; and ASTM method D240 for heat content. Alternative, equivalent methods may be used upon written approval by the Hamilton County Department of Environmental Services.

F. Miscellaneous Requirements

1. In accordance with OAC rule 3745-31-05(A)(2), the permittee shall comply with all applicable laws as defined in OAC rule 3745-31-01(F). Therefore, this permit cannot exempt the permittee from any current or future regulations regarding the disposal or recycling of used oil, as they relate to this emissions unit.