

Facility ID: 1431072600 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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Facility ID: 1431072600 Emissions Unit ID: T012 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>
Tank #1: 10,350-gallon storage tank with carbon adsorption system	OAC rule 3745-31-05(A)(3) (PTI 14-3184)	0.20 ton per year (TPY) of organic compound emissions (OC)
	40 CFR, Part 61, Subpart FF	See Section A.2 below. The control measures specified by this regulation are the same as those established pursuant to OAC rule 3745-31-05(A)(3).
	OAC rule 3745-21-07(D)(2)	The control measure specified by this rule is less stringent than the control measures specified by 40 CFR, Part 61, Subpart FF.

2. Additional Terms and Conditions

- (a) The permittee shall install, operate, and maintain a fixed-roof and closed-vent system that routes all organic vapors vented from the tank to a control device with an efficiency of 95%, by weight, or greater, or shall recover or control the benzene emissions vented to it with an efficiency of 98%, by weight, or greater.
 The cover and all openings (e.g., access hatches, sampling ports, and gauge wells) of this emissions unit shall be designed to operate with no detectable emissions as indicated by an instrument reading of less than 500 ppmv above background, as determined at least once per year by the methods specified in Section 61.355(h) of 40 CFR, Part 61, Subpart FF.
 Each cover seal, access door, and all other openings to this emissions unit shall be checked by visual inspection each quarter to ensure that no cracks or gaps occur between the cover and tank wall and that access doors and other openings are closed and gasketed properly.
 Except as provided in Section 61.350 of 40 CFR, Part 61, Subpart FF, when a broken seal or gasket or other problem with the tank is identified or when detectable emissions are measured, first efforts at repair shall be made as soon as practicable, but not later than 45 calendar days after identification.
 Each closed-vent system and control device used to comply with 40 CFR, Part 61, Subpart FF shall be operated at all times when waste is placed in the waste management unit vented to the control device except when maintenance or repair of the waste management unit cannot be completed without a shutdown of the control device.
 The permittee shall demonstrate that each control device achieves the appropriate conditions specified in paragraph (a)(2) of Section 61.349 of 40 CFR, Part 61, Subpart FF by either engineering calculations in accordance with requirements specified in Section 61.356(f) of this subpart or performance tests conducted using the test methods and procedures that meet the requirements specified in Section 61.355 of this subpart.
 Each closed-vent system and control device shall be visually inspected quarterly. The visual inspection shall include inspection of duct work and piping and connections to covers and control devices for evidence of visible defects such as holes in duct work or piping and loose connections. Except as provided in Section 61.350 of 40 CFR, Part 61, Subpart FF, if visible defects are observed during an inspection, or if other problems are identified, or if detectable emissions are measured, a first effort to repair the closed-vent system and control device shall be made as soon as practicable but no later than

five calendar days after detection. Repair shall be completed no later than 15 calendar days after the emissions are detected or the visible defect is observed.

If the vent systems contain any bypass line that could divert the vent stream away from a control device used to comply with the provisions of Subpart FF, flow indicators shall be installed, maintained, and operated in accordance with the manufacturer's specification. (Where the bypass line valve is secured in the closed position with a car-seal or a lock-and-key type configuration, a flow indicator is not required.) The flow indicator shall provide a record of the vent stream flow away from the control device at least once every 15 minutes. The flow indicator shall be installed at the entrance to any bypass line that could divert the vent stream away from the control device to the atmosphere.

All gauging and sampling devices shall be gas-tight except when gauging or sampling is taking place.

B. Operational Restrictions

1. None

C. Monitoring and/or Record Keeping Requirements

1. For a carbon adsorption system that does not regenerate the carbon bed directly on site in the control device, either the concentration level of the organic compounds or the concentration level of the benzene in the exhaust vent stream from the carbon adsorption system shall be monitored on a regular schedule, and the existing carbon shall be replaced with fresh carbon immediately when carbon breakthrough is indicated. The device shall be monitored on a daily basis or at intervals no greater than 20% of the design carbon replacement interval, whichever is greater.
As an alternative to conducting the above monitoring, the permittee may replace the carbon in the carbon adsorption system with fresh carbon at a regular, predetermined time interval that is less than the carbon replacement interval that is determined by a maximum design flow rate and either the organic concentration or the benzene concentration in the gas stream vented to the carbon adsorption system.
2. The permittee shall comply with the record keeping requirements as specified in Section 61.356 of 40 CFR, Part 61, Subpart FF.

D. Reporting Requirements

1. If the total annual benzene quantity from facility waste is less than 1 megagram (Mg)/yr, then the permittee shall submit to the Hamilton County Department of Environmental Services a report that updates the information listed in paragraphs (a)(1) through (a)(3) of Section 61.357 of 40 CFR, Part 61, Subpart FF whenever there is a change in the process generating the waste stream that could cause the total annual benzene quantity from facility waste to increase to 1 Mg/yr or more. In addition, any other applicable reports shall be submitted per Section 61.357.

E. Testing Requirements

1. The annual OC emission limitation specified in Section A.1 is based upon the emissions unit's potential to emit. Compliance with the OC emission limitation shall be determined in accordance with the methods and formulas specified in AP-42, 5th Edition, Chapter 4.3, Waste Water Collection, Treatment and Storage, or based upon U.S. EPA Tanks Program 4.0.
2. Compliance with the control efficiency limitations for organic vapors and benzene shall be determined by either the engineering calculations or performance tests identified in Section A.2.f of this permit. If required, the permittee shall conduct new performance tests in accordance with Section 61.355 of 40 CFR, Part 61, Subpart FF in order to demonstrate compliance with such limitations.

F. Miscellaneous Requirements

1. None

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Facility ID: 1431072600 Emissions Unit ID: T013 Issuance type: Final State Permit To Operate

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Part II - Special Terms and Conditions

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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>
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Tank #2: 10,350-gallon storage tank with carbon adsorption system	OAC rule 3745-31-05(A)(3) (PTI 14-3184)	0.20 ton per year (TPY) of organic compound emissions (OC)
	40 CFR, Part 61, Subpart FF	See Section A.2 below. The control measures specified by this regulation are the same as those established pursuant to OAC rule 3745-31-05(A)(3).
	OAC rule 3745-21-07(D)(2)	The control measure specified by this rule is less stringent than the control measures specified by 40 CFR, Part 61, Subpart FF.

2. Additional Terms and Conditions

- (a) The permittee shall install, operate, and maintain a fixed-roof and closed-vent system that routes all organic vapors vented from the tank to a control device with an efficiency of 95%, by weight, or greater, or shall recover or control the benzene emissions vented to it with an efficiency of 98%, by weight, or greater.
- The cover and all openings (e.g., access hatches, sampling ports, and gauge wells) of this emissions unit shall be designed to operate with no detectable emissions as indicated by an instrument reading of less than 500 ppmv above background, as determined at least once per year by the methods specified in Section 61.355(h) of 40 CFR, Part 61, Subpart FF.
- Each cover seal, access door, and all other openings to this emissions unit shall be checked by visual inspection each quarter to ensure that no cracks or gaps occur between the cover and tank wall and that access doors and other openings are closed and gasketed properly.
- Except as provided in Section 61.350 of 40 CFR, Part 61, Subpart FF, when a broken seal or gasket or other problem with the tank is identified or when detectable emissions are measured, first efforts at repair shall be made as soon as practicable, but not later than 45 calendar days after identification.
- Each closed-vent system and control device used to comply with 40 CFR, Part 61, Subpart FF shall be operated at all times when waste is placed in the waste management unit vented to the control device except when maintenance or repair of the waste management unit cannot be completed without a shutdown of the control device.
- The permittee shall demonstrate that each control device achieves the appropriate conditions specified in paragraph (a)(2) of Section 61.349 of 40 CFR, Part 61, Subpart FF by either engineering calculations in accordance with requirements specified in Section 61.356(f) of this subpart or performance tests conducted using the test methods and procedures that meet the requirements specified in Section 61.355 of this subpart.
- Each closed-vent system and control device shall be visually inspected quarterly. The visual inspection shall include inspection of duct work and piping and connections to covers and control devices for evidence of visible defects such as holes in duct work or piping and loose connections. Except as provided in Section 61.350 of 40 CFR, Part 61, Subpart FF, if visible defects are observed during an inspection, or if other problems are identified, or if detectable emissions are measured, a first effort to repair the closed-vent system and control device shall be made as soon as practicable but no later than five calendar days after detection. Repair shall be completed no later than 15 calendar days after the emissions are detected or the visible defect is observed.
- If the vent systems contain any bypass line that could divert the vent stream away from a control device used to comply with the provisions of Subpart FF, flow indicators shall be installed, maintained, and operated in accordance with the manufacturer's specification. (Where the bypass line valve is secured in the closed position with a car-seal or a lock-and-key type configuration, a flow indicator is not required.) The flow indicator shall provide a record of the vent stream flow away from the control device at least once every 15 minutes. The flow indicator shall be installed at the entrance to any bypass line that could divert the vent stream away from the control device to the atmosphere.
- All gauging and sampling devices shall be gas-tight except when gauging or sampling is taking place.

B. Operational Restrictions

1. None

C. Monitoring and/or Record Keeping Requirements

1. For a carbon adsorption system that does not regenerate the carbon bed directly on site in the control device, either the concentration level of the organic compounds or the concentration level of the benzene in the exhaust vent stream from the carbon adsorption system shall be monitored on a regular schedule, and the existing carbon shall be replaced with fresh carbon immediately when carbon breakthrough is indicated. The device shall be monitored on a daily basis or at intervals no greater than 20% of the design carbon replacement interval, whichever is greater.
- As an alternative to conducting the above monitoring, the permittee may replace the carbon in the carbon adsorption system with fresh carbon at a regular, predetermined time interval that is less than the carbon replacement interval that is determined by a maximum design flow rate and either the organic concentration or the benzene concentration in the gas stream vented to the carbon adsorption system.
2. The permittee shall comply with the record keeping requirements specified in Section 61.356 of 40 CFR, Part 61, Subpart FF.

D. Reporting Requirements

1. If the total annual benzene quantity from facility waste is less than 1 megagram (Mg)/yr, then the permittee shall submit to the Hamilton County Department of Environmental Services a report that updates the information listed in paragraphs (a)(1) through (a)(3) of Section 61.357 of 40 CFR, Part 61, Subpart FF whenever there is a change in the process generating the waste stream that could cause the total annual benzene quantity from facility waste to increase to 1 Mg/yr or more. In addition, any other applicable reports shall be submitted per Section 61.357.

E. Testing Requirements

1. The annual OC emission limitation specified in Section A.1 is based upon the emissions unit's potential to emit. Compliance with the OC emission limitation shall be determined in accordance with the methods and formulas specified in AP-42, 5th Edition, Chapter 4.3, Waste Water Collection, Treatment and Storage, or based upon U.S. EPA Tanks Program 4.0.

- 2. Compliance with the control efficiency limitations for organic vapors and benzene shall be determined by either the engineering calculations or performance tests identified in Section A.2.f of this permit. If required, the permittee shall conduct new performance tests in accordance with Section 61.355 of 40 CFR, Part 61, Subpart FF in order to demonstrate compliance with such limitations.

F. Miscellaneous Requirements

- 1. None

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Facility ID: 1431072600 Emissions Unit ID: T014 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>
Tank #3: 10,350-gallon storage tank with carbon adsorption system	OAC rule 3745-31-05(A)(3) (PTI 14-3184)	0.20 ton per year (TPY) of organic compound emissions (OC)
	40 CFR, Part 61, Subpart FF	See Section A.2 below. The control measures specified by this regulation are the same as those established pursuant to OAC rule 3745-31-05(A)(3).
	OAC rule 3745-21-07(D)(2)	The control measure specified by this rule is less stringent than the control measures specified by 40 CFR, Part 61, Subpart FF.

2. Additional Terms and Conditions

- (a) The permittee shall install, operate, and maintain a fixed-roof and closed-vent system that routes all organic vapors vented from the tank to a control device with an efficiency of 95%, by weight, or greater or shall recover or control the benzene emissions vented to it with an efficiency of 98%, by weight, or greater.
 The cover and all openings (e.g., access hatches, sampling ports, and gauge wells) of this emissions unit shall be designed to operate with no detectable emissions as indicated by an instrument reading of less than 500 ppmv above background, as determined at least once per year by the methods specified in Section 61.355(h) of 40 CFR, Part 61, Subpart FF.
 Each cover seal, access door, and all other openings to this emissions unit shall be checked by visual inspection each quarter to ensure that no cracks or gaps occur between the cover and tank wall and that access doors and other openings are closed and gasketed properly.
 Except as provided in Section 61.350 of 40 CFR, Part 61, Subpart FF, when a broken seal or gasket or other problem with the tank is identified or when detectable emissions are measured, first efforts at repair shall be made as soon as practicable, but not later than 45 calendar days after identification.
 Each closed-vent system and control device used to comply with 40 CFR, Part 61, Subpart FF shall be operated at all times when waste is placed in the waste management unit vented to the control device except when maintenance or repair of the waste management unit cannot be completed without a shutdown of the control device.
 The permittee shall demonstrate that each control device achieves the appropriate conditions specified in paragraph (a)(2) of 61.349 of 40 CFR, Part 61, Subpart FF by either engineering calculations in accordance with requirements specified in Section 61.356(f) of this subpart or performance tests conducted using the test methods and procedures that meet the requirements specified in Section 61.355 of this subpart.
 Each closed-vent system and control device shall be visually inspected quarterly. The visual inspection shall include inspection of duct work and piping and connections to covers and control devices for evidence of visible defects such as holes in duct work or piping and loose connections. Except as provided in Section 61.350 of 40 CFR, Part 61, Subpart FF, if visible defects are observed during an inspection, or if other problems are identified, or if detectable emissions are measured, a first effort to repair the closed-vent system and control device shall be made as soon as practicable but no later than

five calendar days after detection. Repair shall be completed no later than 15 calendar days after the emissions are detected or the visible defect is observed.

If the vent systems contain any bypass line that could divert the vent stream away from a control device used to comply with the provisions of Subpart FF, flow indicators shall be installed, maintained, and operated in accordance with the manufacturer's specification. (Where the bypass line valve is secured in the closed position with a car-seal or a lock-and-key type configuration, a flow indicator is not required.) The flow indicator shall provide a record of the vent stream flow away from the control device at least once every 15 minutes. The flow indicator shall be installed at the entrance to any bypass line that could divert the vent stream away from the control device to the atmosphere.

All gauging and sampling devices shall be gas-tight except when gauging or sampling is taking place.

B. Operational Restrictions

1. None

C. Monitoring and/or Record Keeping Requirements

1. For a carbon adsorption system that does not regenerate the carbon bed directly on site in the control device, either the concentration level of the organic compounds or the concentration level of the benzene in the exhaust vent stream from the carbon adsorption system shall be monitored on a regular schedule, and the existing carbon shall be replaced with fresh carbon immediately when carbon breakthrough is indicated. The device shall be monitored on a daily basis or at intervals no greater than 20% of the design carbon replacement interval, whichever is greater.
As an alternative to conducting the above monitoring, the permittee may replace the carbon in the carbon adsorption system with fresh carbon at a regular, predetermined time interval that is less than the carbon replacement interval that is determined by a maximum design flow rate and either the organic concentration or the benzene concentration in the gas stream vented to the carbon adsorption system.
2. The permittee shall comply with the record keeping requirements specified in Section 61.356 of 40 CFR, Part 61, Subpart FF.

D. Reporting Requirements

1. If the total annual benzene quantity from facility waste is less than 1 megagram (Mg)/yr, then the permittee shall submit to the Hamilton County Department of Environmental Services a report that updates the information listed in paragraphs (a)(1) through (a)(3) of Section 61.357 of 40 CFR, Part 61, Subpart FF whenever there is a change in the process generating the waste stream that could cause the total annual benzene quantity from facility waste to increase to 1 Mg/yr or more. In addition, any other applicable reports shall be submitted per Section 61.357.

E. Testing Requirements

1. The annual OC emission limitation specified in Section A.1 is based upon the emissions unit's potential to emit. Compliance with the OC emission limitation shall be determined in accordance with the methods and formulas specified in AP-42, 5th Edition, Chapter 4.3, Waste Water Collection, Treatment and Storage, or based upon U.S. EPA Tanks Program 4.0.
2. Compliance with the control efficiency limitations for organic vapors and benzene shall be determined by either the engineering calculations or performance tests identified in Section A.2.f of this permit. If required, the permittee shall conduct new performance tests in accordance with Section 61.355 of 40 CFR, Part 61, Subpart FF in order to demonstrate compliance with such limitations.

F. Miscellaneous Requirements

1. None

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Facility ID: 1431072600 Emissions Unit ID: T015 Issuance type: Final State Permit To Operate

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Part II - Special Terms and Conditions

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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>
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Tank #4: 10,350-gallon storage tank with carbon adsorption system	OAC rule 3745-31-05(A)(3) (PTI 14-3184)	0.20 ton per year (TPY) of organic compound emissions (OC)
	40 CFR, Part 61, Subpart FF	See Section A.2 below. The control measures specified by this regulation are the same as those established pursuant to OAC rule 3745-31-05(A)(3).
	OAC rule 3745-21-07(D)(2)	The control measure specified by this rule is less stringent than the control measures specified by 40 CFR, Part 61, Subpart FF.

2. Additional Terms and Conditions

- (a) The permittee shall install, operate, and maintain a fixed-roof and closed-vent system that routes all organic vapors vented from the tank to a control device with an efficiency of 95%, by weight, or greater, or shall recover or control the benzene emissions vented to it with an efficiency of 98%, by weight, or greater.
- The cover and all openings (e.g., access hatches, sampling ports, and gauge wells) of this emissions unit shall be designed to operate with no detectable emissions as indicated by an instrument reading of less than 500 ppmv above background, as determined at least once per year by the methods specified in Section 61.355(h) of 40 CFR, Part 61, Subpart FF.
- Each cover seal, access door, and all other openings to this emissions unit shall be checked by visual inspection each quarter to ensure that no cracks or gaps occur between the cover and tank wall and that access doors and other openings are closed and gasketed properly.
- Except as provided in Section 61.350 of 40 CFR, Part 61, Subpart FF, when a broken seal or gasket or other problem with the tank is identified or when detectable emissions are measured, first efforts at repair shall be made as soon as practicable, but not later than 45 calendar days after identification.
- Each closed-vent system and control device used to comply with 40 CFR, Part 61, Subpart FF shall be operated at all times when waste is placed in the waste management unit vented to the control device except when maintenance or repair of the waste management unit cannot be completed without a shutdown of the control device.
- The permittee shall demonstrate that each control device achieves the appropriate conditions specified in paragraph (a)(2) of 61.349 of 40 CFR, Part 61, Subpart FF by either engineering calculations in accordance with requirements specified in Section 61.356(f) of this subpart or performance tests conducted using the test methods and procedures that meet the requirements specified in Section 61.355 of this subpart.
- Each closed-vent system and control device shall be visually inspected quarterly. The visual inspection shall include inspection of duct work and piping and connections to covers and control devices for evidence of visible defects such as holes in duct work or piping and loose connections. Except as provided in Section 61.350 of 40 CFR, Part 61, Subpart FF, if visible defects are observed during an inspection, or if other problems are identified, or if detectable emissions are measured, a first effort to repair the closed-vent system and control device shall be made as soon as practicable but no later than five calendar days after detection. Repair shall be completed no later than 15 calendar days after the emissions are detected or the visible defect is observed.
- If the vent systems contain any bypass line that could divert the vent stream away from a control device used to comply with the provisions of Subpart FF, flow indicators shall be installed, maintained, and operated in accordance with the manufacturer's specification. (Where the bypass line valve is secured in the closed position with a car-seal or a lock-and-key type configuration, a flow indicator is not required.) The flow indicator shall provide a record of the vent stream flow away from the control device at least once every 15 minutes. The flow indicator shall be installed at the entrance to any bypass line that could divert the vent stream away from the control device to the atmosphere.
- All gauging and sampling devices shall be gas-tight except when gauging or sampling is taking place.

B. Operational Restrictions

1. None

C. Monitoring and/or Record Keeping Requirements

1. For a carbon adsorption system that does not regenerate the carbon bed directly on site in the control device, either the concentration level of the organic compounds or the concentration level of the benzene in the exhaust vent stream from the carbon adsorption system shall be monitored on a regular schedule, and the existing carbon shall be replaced with fresh carbon immediately when carbon breakthrough is indicated. The device shall be monitored on a daily basis or at intervals no greater than 20% of the design carbon replacement interval, whichever is greater.
- As an alternative to conducting the above monitoring, the permittee may replace the carbon in the carbon adsorption system with fresh carbon at a regular, predetermined time interval that is less than the carbon replacement interval that is determined by a maximum design flow rate and either the organic concentration or the benzene concentration in the gas stream vented to the carbon adsorption system.
2. The permittee shall comply with the record keeping requirements specified in Section 61.356 of 40 CFR, Part 61, Subpart FF.

D. Reporting Requirements

1. If the total annual benzene quantity from facility waste is less than 1 megagram (Mg)/yr, then the permittee shall submit to the Hamilton County Department of Environmental Services a report that updates the information listed in paragraphs (a)(1) through (a)(3) of Section 61.357 of 40 CFR, Part 61, Subpart FF whenever there is a change in the process generating the waste stream that could cause the total annual benzene quantity from facility waste to increase to 1 Mg/yr or more. In addition, any other applicable reports shall be submitted per Section 61.357.

E. Testing Requirements

1. The annual OC emission limitation specified in Section A.1 is based upon the emissions unit's potential to emit. Compliance with the OC emission limitation shall be determined in accordance with the methods and formulas specified in AP-42, 5th Edition, Chapter 4.3, Waste Water Collection, Treatment and Storage, or based upon U.S. EPA Tanks Program 4.0.

- 2. Compliance with the control efficiency limitations for organic vapors and benzene shall be determined by either the engineering calculations or performance tests identified in Section A.2.f of this permit. If required, the permittee shall conduct new performance tests in accordance with Section 61.355 of 40 CFR, Part 61, Subpart FF in order to demonstrate compliance with such limitations.

F. Miscellaneous Requirements

- 1. None

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- 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.
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 - (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>
Tank #12: 10,350-gallon storage tank with carbon adsorption system	OAC rule 3745-31-05(A)(3) (PTI 14-3184)	0.20 ton per year (TPY) of organic compound emissions (OC)
	40 CFR, Part 61, Subpart FF	See Section A.2 below. The control measures specified by this regulation are the same as those established pursuant to OAC rule 3745-31-05(A)(3).
	OAC rule 3745-21-07(D)(2)	The control measure specified by this rule is less stringent than the control measures specified by 40 CFR, Part 61, Subpart FF.

2. Additional Terms and Conditions

- (a) The permittee shall install, operate, and maintain a fixed-roof and closed-vent system that routes all organic vapors vented from the tank to a control device with an efficiency of 95%, by weight, or greater, or shall recover or control the benzene emissions vented to it with an efficiency of 98%, by weight, or greater.
 The cover and all openings (e.g., access hatches, sampling ports, and gauge wells) of this emissions unit shall be designed to operate with no detectable emissions as indicated by an instrument reading of less than 500 ppmv above background, as determined at least once per year by the methods specified in Section 61.355(h) of 40 CFR, Part 61, Subpart FF.
 Each cover seal, access door, and all other openings to this emissions unit shall be checked by visual inspection each quarter to ensure that no cracks or gaps occur between the cover and tank wall and that access doors and other openings are closed and gasketed properly.
 Except as provided in Section 61.350 of 40 CFR, Part 61, Subpart FF, when a broken seal or gasket or other problem with the tank is identified or when detectable emissions are measured, first efforts at repair shall be made as soon as practicable, but not later than 45 calendar days after identification.
 Each closed-vent system and control device used to comply with 40 CFR, Part 61, Subpart FF shall be operated at all times when waste is placed in the waste management unit vented to the control device except when maintenance or repair of the waste management unit cannot be completed without a shutdown of the control device.
 The permittee shall demonstrate that each control device achieves the appropriate conditions specified in paragraph (a)(2) of Section 61.349 of 40 CFR, Part 61, Subpart FF by either engineering calculations in accordance with requirements specified in Section 61.356(f) of this subpart or performance tests conducted using the test methods and procedures that meet the requirements specified in Section 61.355 of this subpart.
 Each closed-vent system and control device shall be visually inspected quarterly. The visual inspection shall include inspection of duct work and piping and connections to covers and control devices for evidence of visible defects such as holes in duct work or piping and loose connections. Except as provided in Section 61.350 of 40 CFR, Part 61, Subpart FF, if visible defects are observed during an inspection, or if other problems are identified, or if detectable emissions are measured, a first effort to repair the closed-vent system and control device shall be made as soon as practicable but no later than

five calendar days after detection. Repair shall be completed no later than 15 calendar days after the emissions are detected or the visible defect is observed.

If the vent systems contain any bypass line that could divert the vent stream away from a control device used to comply with the provisions of Subpart FF, flow indicators shall be installed, maintained, and operated in accordance with the manufacturer's specification. (Where the bypass line valve is secured in the closed position with a car-seal or a lock-and-key type configuration, a flow indicator is not required.) The flow indicator shall provide a record of the vent stream flow away from the control device at least once every 15 minutes. The flow indicator shall be installed at the entrance to any bypass line that could divert the vent stream away from the control device to the atmosphere.

All gauging and sampling devices shall be gas-tight except when gauging or sampling is taking place.

B. Operational Restrictions

1. None

C. Monitoring and/or Record Keeping Requirements

1. For a carbon adsorption system that does not regenerate the carbon bed directly on site in the control device, either the concentration level of the organic compounds or the concentration level of the benzene in the exhaust vent stream from the carbon adsorption system shall be monitored on a regular schedule, and the existing carbon shall be replaced with fresh carbon immediately when carbon breakthrough is indicated. The device shall be monitored on a daily basis or at intervals no greater than 20% of the design carbon replacement interval, whichever is greater.

As an alternative to conducting the above monitoring, the permittee may replace the carbon in the carbon adsorption system with fresh carbon at a regular, predetermined time interval that is less than the carbon replacement interval that is determined by a maximum design flow rate and either the organic concentration or the benzene concentration in the gas stream vented to the carbon adsorption system.

2. The permittee shall comply with the record keeping requirements specified in Section 61.356 of 40 CFR, Part 61, Subpart FF.

D. Reporting Requirements

1. If the total annual benzene quantity from facility waste is less than 1 megagram (Mg)/yr, then the permittee shall submit to the Hamilton County Department of Environmental Services a report that updates the information listed in paragraphs (a)(1) through (a)(3) of Section 61.357 of 40 CFR, Part 61, Subpart FF whenever there is a change in the process generating the waste stream that could cause the total annual benzene quantity from facility waste to increase to 1 Mg/yr or more. In addition, any other applicable reports shall be submitted per Section 61.357.

E. Testing Requirements

1. The annual OC emission limitation specified in Section A.1 is based upon the emissions unit's potential to emit. Compliance with the OC emission limitation shall be determined in accordance with the methods and formulas specified in AP-42, 5th Edition, Chapter 4.3, Waste Water Collection, Treatment and Storage, or based upon U.S. EPA Tanks Program 4.0.
2. Compliance with the control efficiency limitations for organic vapors and benzene shall be determined by either the engineering calculations or performance tests identified in Section A.2.f of this permit. If required, the permittee shall conduct new performance tests in accordance with Section 61.355 of 40 CFR, Part 61, Subpart FF in order to demonstrate compliance with such limitations.

F. Miscellaneous Requirements

1. None