KEY (for internal Agency use only)
▶ = Permitting/Corrective Action
▶ = Engineering
▶ = Chemistry
▶ = Financial Assurance
▶ = Geology

Hazardous Waste "Part B" Operating Permit Application
40 CFR 264 Subpart CC Module

The following links to guidance are for informational purposes only. Please do not include guidance with the permit application submittal.

Resource Conservation and Recovery Act Organic Air Emission Standards for Treatment, Storage, and Disposal Facilities and Large Quantity Generators

Applicability and Requirements of the RCRA Organic Air Emission Standards | US EPA

Add the permit application module information to the end of Attachment D, Process Information.

Attachment D-CC ▶ Air Emission Standards for Tanks and Containers

Applicability 40 CFR 264.1080

Check the appropriate box:

☐ No tanks or containers exist at the facility subject to 40 CFR Part 264 Subpart CC.

If this first box is checked, provide the information required by CC-1, CC-1(a) and CC-1(b), then delete the remainder of the checklist.

☐ Tanks and/or Containers Exist Subject to 40 CFR Part 264 Subpart CC.

☐ Tanks and/or containers subject to 40 CFR Part 264 Subpart CC are operated in accordance with the federal Clean Air Act (CAA) regulations codified under 40 CFR Parts 60, 61, or 63. Provide documentation of compliance under the CAA as follows:

(a) Location and description for each tank and container.
(b) A description of the pollution control equipment installed at each subject CC unit or emission control program being implemented at the facility.
(c) Identification of the current CAA requirement applicable to each subject CC unit or equipment, and the source of the requirement (e.g., construction permit, permit to install, regulations).
(d) A written statement that the owner/operator certifies all subject units are "operating air emission controls in accordance with the requirements of an applicable CAA regulation codified under 40 CFR parts 60, 61, or 63." This certified written statement, accompanied by the specific information listed above, must state that all subject units are in compliance with applicable CAA requirements and that no unit for which the RCRA exemption is being claimed is currently exempted or will be exempted in the future from operating air emission controls because of emission averaging across the facility, via emission threshold determination, or for other reasons.

If **all** units subject to 40 CFR Part 264 Subpart CC are operated in accordance with the CAA, delete the remainder of D-CC below.

CC-1 Exempt Units 40 CFR 264.1089(f)

Describe any exemptions that apply under 40 CFR 264.1080 or 264.1082(c) and provide justification.

CC-1(a) Waste Determination 40 CFR 264.1089(f)(1)

Following the procedures described in 40 CFR 264.1083(a), describe the method used for determining the total volatile organic concentration of the waste stream is less than 500 ppmw at the point of waste origination, or if the hazardous waste organic content has been reduced to the extent described in 40 CFR 264.1082(c)(2) prior to entering the tank or container.

Describe maintenance procedures for waste analysis records that document exemptions from 40 CFR Part 264 Subpart CC standards.

CC-1(b) Identification Numbers of Treatment Units 40 CFR 264.1089(f)(2)

If applicable, for exempt tanks and containers, provide identification numbers for combustion units in which the waste is treated.

CC-2 Air Emissions from Tanks or Containers

For each unit that is subject to 40 CFR Part 264 Subpart CC identify the process, unit type, and regulatory status. Check the appropriate box below to identify the types of units that exist at your facility.

☐ Tanks

☐ Containers

CC-3 Waste Streams 40 CFR 264.1082(d)

Identify the origin of waste streams associated with each unit identified above not exempt under 40 CFR 264.1080 and 264.1082(c).

CC-3(a) Description of Procedures for Determining No Detectable Organic Compound Emissions 40 CFR 264.1083(d) and 270.27(a)(6)

Describe procedures for determining that no detectable emissions exist. Demonstrate that the procedures are conducted in accordance with Method 21 of 40 CFR Part 60, Appendix A. Provide an emission monitoring plan for both Method 21 in 40 CFR Part 60, Appendix A and control device monitoring methods. This plan shall include the following information: monitoring point(s), monitoring methods for control devices, monitoring frequency, procedures for documenting exceedances, and procedures for mitigating noncompliance.

CC-4 Tanks Description 40 CFR 270.27(a)(1) and (3)

For each tank managing waste containing greater than 500 ppmw total VO, describe design specifications including capacity. If this information is contained in another document, reference the location of the document.

CC-4(a) Description of Level 1 Controls 40 CFR 264.1084(c)

Describe tank Level 1 controls and include documentation to show that tanks meet requirements to use Level 1 controls. To use Level 1 controls, tanks must meet all the following requirements:

- For a tank design capacity equal to or greater than 151 cubic meters (m^3), the maximum organic vapor pressure limit is 5.2 kilopascals (kPa).
- For a tank design capacity equal to or greater than 75 m^3 but less than 151 m^3, the maximum organic vapor pressure limit is 27.6 kPa.
- For a tank design capacity less than 75 m^3, the maximum organic vapor pressure limit is 76.6 kPa.
- The hazardous waste in the tank is not heated to a temperature that is greater than the temperature at which the maximum organic vapor pressure is determined for the purpose of compliance with the limits listed above.
- The hazardous waste in the tank is not treated by using a waste stabilization process.

An acceptable tank Level 1 control is a fixed roof that forms a continuous barrier with no openings to the atmosphere and may be connected to a closed-vent system and control device.

CC-4(a)(1) Maximum Organic Vapor Pressure Limit Design Capacity 40 CFR 264.1084(b)

Provide documentation to show that the maximum organic vapor pressure of the hazardous waste does not exceed the limits in accordance with 40 CFR 264.1084(b).

CC-4(a)(2) Description of Fixed Roof 40 CFR 264.1084(c)(2)

If applicable, describe fixed roofs used on affected tanks and show that design and construction of the fixed roofs result in no openings by which hazardous waste can escape to the atmosphere.

CC-4(a)(3) Description of Closure Devices and Operating Procedures 40 CFR 264.1084(c)(3)

Demonstrate that the design and operation of fixed-roof closure devices prevent the closure devices from being opened, except during tank cleaning or to provide access to each tank. Describe any pressure relief vents or valves that may exist on each tank.

CC-4(a)(4) Description of Inspection Procedures 40 CFR 264.1084(c)(4)

Describe the inspection program for tanks using fixed roofs and the types of defects that are looked for during each inspection. Show that tanks are inspected at least annually.

CC-4(b) Description of Level 2 Controls 40 CFR 264.1084(d)

If applicable, describe tank Level 2 controls used on hazardous waste tanks. Examples of acceptable Level 2 controls include:

- A fixed-roof tank equipped with an internal floating roof
- A tank equipped with an external floating roof
- A tank vented through a closed-vent system to a control device
- A pressure tank
- A tank located inside an enclosure that is vented through a closed-vent system and control device

CC-4(b)(1) Fixed Roof and Internal Floating Roof 40 CFR 264.1084(e)

If applicable, demonstrate that the internal floating roof is designed to float on the liquid surface except when it is supported by leg supports. Describe the seal between the wall of the tank and the floating roof. Describe openings in the floating roof, including gaskets, vents, ladder wells, sample wells, and stub drains. Describe tank filling, emptying, and inspection procedures.

CC-4(b)(2) External Floating Roof 40 CFR 264.1084(f)

If applicable, demonstrate that the external floating roof is designed to float on the liquid surface except when it is supported by leg supports. Describe the seal between the wall of the tank and the floating roof. Describe openings in the floating roof, including gaskets, vents, guide poles, and access hatches. Describe tank filling, emptying, and inspection procedures.

CC-4(b)(3) Tank Vented to Closed-vent System 40 CFR 264.1084(g)

If applicable, describe design and operation procedures for hazardous waste tanks that are vented to closed-vent systems. Describe closure devices and closed-vent systems. Describe tank filling, emptying, and inspection procedures.

CC-4(b)(4) Pressure Tank 40 CFR 264.1084(h)

If applicable, describe hazardous waste pressure tanks design and operation procedures and demonstrate that the tanks do not vent to the atmosphere. Describe closure devices and closed-vent systems.

CC-4(b)(5) Tank Located Within an Enclosure Vented to a Combustion Device 40 CFR 264.1084(i)

If applicable, describe design and operating procedures for hazardous waste tanks that are located within enclosures that are vented to a combustion device. Describe the combustion device or refer to the appropriate template section in which this information is contained. Describe waste transfer, inspection, and tank repair procedures.

CC-5 Container Descriptions 40 CFR 264.1086, 40 CFR 270.27(a)(2)

For each type of container used for managing waste that contains greater than 500 ppmw total VO, provide a description of design specifications including capacity. In addition, identify each container storage area subject to the 40 CFR Part 264 Subpart CC requirements and certify that the requirements of Subpart CC are met. If necessary, attach copies of the information. If this information is contained in another document, reference the location of the document.

CC-5(a) Description of Container Level 1 Controls 40 CFR 264.1086(b) and (c)

Describe container Level 1 controls that are used by your facility and document the reason that Level 1 controls are appropriate. For example, show that containers using Level 1 controls have a design capacity of between 0.1 and 0.46 m^3.

CC-5(a)(1) U.S. Department of Transportation Specifications 40 CFR 264.1086(c)(1)

Describe applicable U.S. Department of Transportation or Indiana Department of Transportation specifications and demonstrate that containers meet the specifications.

CC-5(a)(2) Cover and Closure Devices 40 CFR 264.1086(c)

If applicable, describe the design and operation of container covers and closure devices. Show that covers and closure devices form a continuous barrier over container openings.

CC-5(a)(3) Open-Top Containers with Organic Vapor-Suppressing Barrier 40 CFR 264.1086(c)

If applicable, describe the use of vapor-suppressing foam on open-top containers and demonstrate that the barrier prevents exposure of hazardous waste to the atmosphere.

CC-5(a)(4) Inspection Procedures 40 CFR 264.1086(c)(4)

Describe the inspection program for containers using Level 1 controls in Attachment A5, Inspection Schedules, to the application form. Demonstrate that the containers are inspected when received by the facility and every 12 months thereafter. Describe corrective action procedures that are implemented when a container is found to be in unsatisfactory condition. Describe items that are examined during container inspections.

CC-5(b) Description of Container Level 2 Controls 40 CFR 264.1086(d)

Describe container Level 2 controls that are used by your facility.

CC-5(b)(1) U.S. Department of Transportation Specifications 40 CFR 264.1086(d)(1)

Describe applicable U.S. Department of Transportation or Indiana Department of Transportation specifications and demonstrate that containers meet the specifications.

CC-5(b)(2) Container Operating with No Detectable Emissions 40 CFR 264.1086(d)(1)

If applicable, describe the method for determining that containers are operating with no detectable emissions. Identify test methods used to make the determination.

CC-5(b)(3) Containers Demonstrated to be Vapor-Tight 40 CFR 264.1086(d)(1)

Illustrate the method for demonstrating that containers are vapor-tight according to procedures specified in 40 CFR Part 60, Appendix A, Method 27.

CC-5(b)(4) Container Waste Transfer Procedures 40 CFR 264.1086(d)(2)

Describe transfer of hazardous waste in or out of containers using Level 2 controls. Examples of acceptable transfer procedures include: (1) using a submerged-fill pipe, (2) collecting displaced vapors with a vapor-balancing or vapor-recovery system, and (3) using a fitted container opening and purging the transfer line before removing it from the container opening.

CC-5(b)(5) Cover and Closure Management Procedures 40 CFR 264.1086(d)(3)

Describe cover and closure management procedures for containers using Level 2 controls. Show that covers are opened only for the purpose of removing or adding waste and measuring waste levels or accessing interior container equipment.

CC-5(b)(6) Inspection Procedures 40 CFR 264.1086(d)(4)

Describe inspection procedures for containers using Level 2 controls in Attachment A5, Inspection Schedules, to the application form. Demonstrate that containers are inspected within 24 hours of receipt and every 12 months, thereafter. Describe repair procedures that are implemented when defects are found.

CC-5(c) Description of Container Level 3 Controls 40 CFR 264.1086(e)

Describe container Level 3 controls that are used by your facility.

CC-5(c)(1) Closed-Vent System Vented to a Control Device 40 CFR 264.1086(e)(1)(i) and (2)(ii)

Identify all containers that are managed in a closed-vent system vented to a control device. Describe the type of control device to which the containers are vented. If detailed descriptions of control devices are described in other template sections, reference those sections here. Examples of control

devices include: (1) carbon adsorption systems, (2) thermal vapor incinerators, (3) flare, (4) boilers, (5) process heaters, and (6) condensers.

CC-5(c)(2) Container Vented to an Enclosure That Is Vented to a Control Device
40 CFR 264.1086(e)(1)(ii) and (2)(i)

Identify all containers that are vented to an enclosure vented to a control device. Describe the type of control device to which the enclosure is vented. If detailed descriptions of control devices are described in other template sections, reference those sections here. Examples of control devices include: (1) carbon adsorption systems, (2) thermal vapor incinerators, (3) flare, (4) boilers, (5) process heaters, and (6) condensers.

CC-5(c)(3) Safety Devices 40 CFR 264.1086(e)(3)

Describe any safety devices that are installed to comply with container Level 3 controls.

CC-5(c)(4) Inspection and Monitoring Procedures 40 CFR 264.1086(e)(4)

Describe inspection procedures in Attachment A5, Inspection Schedules, to the application form and the monitoring procedures for containers using Level 3 controls. Describe calibration and monitoring procedures for continuous emissions monitors.

CC-5(c)(5) Records Management 40 CFR 264.1086(e)(5)

Describe the preparation and maintenance of records regarding containers using Level 3 controls. Provide the most recent set of emissions calculations and measurements. Provide a certification showing that the control device is designed to operate at a performance level documented by a design analysis or performance test at capacity or the highest level reasonably expected to occur.

CC-5(c)(6) Waste Transfer Procedures 40 CFR 264.1086(e)(2)

Describe the method for transferring waste to and from containers while controlling emissions during the transfer process.

CC-6 Description of Closed-Vent Systems and Control Devices
40 CFR 264.1087, 40 CFR 270.27(a)(5)

Provide a general description of the closed-vent system and control devices used at your facility. Attach documentation that includes design and performance information, for each closed-vent system and control device, as specified in 40 CFR 270.24(c) and (d).

CC-6(a)(1) Description of Closed-Vent System 40 CFR 264.1087(b)

Describe, in detail, the closed-vent system used at your facility, and demonstrate that the system will prevent hazardous waste emissions to the atmosphere.

CC-6(a)(2) Description of Control Devices 40 CFR 264.1087(c)

Describe, in detail, the control devices used at your facility. Show that the control device reduces the total organic content of the inlet vapor stream by at least 95 percent by weight or consists of an enclosed combustion device or flare.

CC-6(a)(3) Inspection Procedures 40 CFR 264.1087(b)(4) and (c)(7)

Describe inspection procedures for closed-vent systems and control devices in Attachment A5, Inspection Schedules, to this application. Describe calibration and monitoring procedures for continuous emissions monitors.

CC-7 Description of Record Keeping Procedures 40 CFR 264.1089(a)

Describe record keeping procedures to document compliance with 40 CFR Part 264 Subpart CC and show compliance of these procedures with the requirements of 40 CFR 264.1089(a).

CC-7(a) Description of Tank Record Keeping Procedures 40 CFR 264.1089(b)

Describe the types of records maintained for hazardous waste tanks. Demonstrate that these records are maintained in the operating record for at least three years.

CC-7(a)(1) Tank Identification Numbers 40 CFR 264.1089(b)(1)(i)

Provide identification numbers or some other unique identification system for each affected tank.

CC-7(a)(2) Inspection Records 40 CFR 264.1089(b)(1)(ii)

Describe information that is recorded during tank inspections and describe the floating roof design.

CC-7(a)(3) Documentation for Determination of Maximum Organic Vapor Pressure for Fixed Roof Level 1 Controls 40 CFR 264.1089(b)(2)(i)

Describe information recorded to document each determination of maximum organic vapor pressure of hazardous waste contained in each tank. Show the date and time that samples were collected, analytical methods, and results of the analyses.

CC-7(a)(4) Documentation Showing Internal Floating Roof Design 40 CFR 264.1089(b)(2)(ii)

Provide documentation showing the internal floating roof design, and describe the methods by which this information is maintained.

CC-7(a)(5) Documentation Showing External Floating Roof Design and Seal Inspections 40 CFR 264.1089(b)(2)(iii)

Provide documentation showing the external floating roof design, dimensions of each tank, and records of seal inspections. Demonstrate that dates of measurements, raw data, and calculations of total gap surface area are recorded and maintained.

CC-7(a)(6) Calculations and Records for Demonstrating Compliance with Enclosure Requirements for Level 2 Controls 40 CFR 264.1089(b)(2)(iv)

Provide documentation that records that include the most recent set of calculations and measurements that demonstrate a total enclosure prevents emissions to the atmosphere are maintained at the facility. If applicable, show that records are maintained to demonstrate that closed-vent systems and control devices prevent emissions to the atmosphere.

CC-7(b) Description of Container Level 3 Control Record Keeping Procedures 40 CFR 264.1089(d)

Use this section to describe general container Level 3 control record keeping procedures and the following two sections to describe the manner in which specific information requirements are met.

CC-7(b)(1) Calculations Verifying Compliance with Enclosure Requirements
40 CFR 264.1089(d)(1)

Describe the approach for maintaining records to show the most recent set of calculations and measurements that verify compliance with enclosure requirements.

CC-7(b)(2) Closed-Vent System and Control Device Certifications and Records
40 CFR 264.1089(d)(2)

Describe design certification and other records that will be maintained to describe design analyses, performance tests, and routine maintenance operations.

CC-7(c) Closed-Vent System and Control Device Records 40 CFR 264.1089(e)

Use this section to describe general closed-vent system and control device record-keeping procedures and the following sections to describe the approach for meeting specific information requirements.

CC-7(c)(1) Performance Certification 40 CFR 264.1089(e)(1)(i)

Provide a signed certification that documents that each control device is designed to operate at a specified performance level.

CC-7(c)(2) Design Analysis Documentation 40 CFR 264.1089(e)(1)(i)(ii)

If applicable, provide documentation of control device design analysis and a signed certification that the control equipment meets applicable specifications.

CC-7(c)(3) Performance Test Plan and Results 40 CFR 264.1089(e)(1)(i)(iii)

If applicable, provide a performance test plan and results. This information can be referenced here and included as a separate attachment to this template.

CC-7(c)(4) Descriptions of Sensors, Modifications, and Locations 40 CFR 264.1089(e)(1)(i)(iv)

If applicable, describe sensors, system modifications, and locations of sensors.

CC-7(c)(5) Planned Routine Maintenance Schedules 40 CFR 264.1089(e)(1)(i)(v)

Provide a schedule for planned routine maintenance of control equipment for those maintenance periods when the equipment is not expected to meet emission control requirements.

CC-7(c)(6) Descriptions of Unplanned Malfunctions 40 CFR 264.1089(e)(1)(i)(vi)

Describe the maintenance procedures for records that describe effects of unplanned equipment malfunctions.

CC-7(c)(7) Management of Carbon Removed from a Carbon Absorption System
40 CFR 264.1089(e)(1)(i)(vii)

Describe records that will be maintained to show management of carbon that is removed from carbon absorption systems.

CC-7(d) Description of Covers Designated as Unsafe to Inspect and Monitor
40 CFR 264.1089(g)

Provide identification numbers for covers that are designated as unsafe to inspect and monitor. Also provide a justification for making this designation.

CC-7(e) Documentation Required for Tanks and Containers Not Using Air Emission Controls
40 CFR 264.1089(i)

Provide a list of tanks and containers that are not using air emission controls and detailed justifications in the following sections.

CC-7(e)(1) List of Organic Peroxide Compounds 40 CFR 264.1089(i)(1)

If applicable, provide a list of organic peroxide compounds that are managed at your facility that result in unit exemptions from 40 CFR Part 264 Subpart CC requirements.

CC-7(e)(2) Management of Organic Peroxide Compounds 40 CFR 264.1089(i)(2)

Describe how applicable organic peroxide compounds are managed in tanks and containers.

CC-7(e)(3) Justification for Claiming that Air Emission Controls Would Create an Undue Safety Hazard 40 CFR 264.1089(i)(3)

If applicable, provide a detailed justification for claiming that the use of emission controls on tanks and containers that contain organic peroxide compounds would create an undue safety hazard.