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▶ = Permitting/Corrective Action

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## Hazardous Waste “Part B” Operating Permit Application 40 CFR 264 Subpart BB Module

The following links to guidance are for informational purposes only. Please do not include the 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 below to the end of Attachment D, Process Information.

#### Attachment D-BB ▶ [Air Emission Standards for Equipment Leaks](#)

[Applicability](#) 40 CFR 264.1050

Check the appropriate box and provide required documentation.

- ☐ No equipment exists subject to 40 CFR Part 264 Subpart BB. Check all that apply:
  - ☐ Waste stream is less than 10 percent by weight in accordance with 40 CFR 264.1063(d). Describe the method used for determining the total organic compound concentration.
  - ☐ Equipment is in vacuum service. Provide a list of identification numbers for all equipment in vacuum service.
  - ☐ Equipment contains or contacts hazardous waste or hazardous waste residues with an organic concentration of at least 10 percent by weight for less than 300 hours per calendar year. Provide identification of equipment either by list or location.

Provide the information required by 40 CFR 264.1064(k) to support the above exemption(s).

#### If no regulated equipment exists, delete the remainder of D-BB.

- ☐ Equipment is subject to 40 CFR Part 264 Subpart BB and owner/operator elects to demonstrate compliance pursuant to equipment standards under 40 CFR Subpart BB.
- ☐ Equipment is subject to 40 CFR Part 264 Subpart BB and owner/operator elects to demonstrate compliance by documenting compliance 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) Identification and description of all equipment subject to Subpart BB and how the equipment is controlled by application of an emission control program under CAA (such as an LDAR program).
- (b) Identification of the current CAA requirement applicable to each subject BB equipment, and the source of the requirement (e.g., construction permit, permit to install, regulations).
- (c) A written statement that the owner/operator elects to determine compliance of all subject equipment under the identified CAA requirements, and that such documentation is kept with or made readily available with the facility operating record.

If demonstrating compliance with CAA for **all** equipment subject to 40 CFR Part 264 Subpart BB, delete the remainder of D-BB below.

**BB-1** Equipment Description

Check the appropriate boxes below to identify types of equipment at the facility.

- ☐ Pumps in light liquid service
- ☐ Compressors
- ☐ Pressure relief devices in gas or vapor service
- ☐ Sampling connection systems
- ☐ Open-ended valves or lines
- ☐ Valves in gas or vapor or light liquid service
- ☐ Pumps and valves in heavy liquid service, pressure relief devices in light liquid or heavy liquid service, flanges and other connectors

**BB-1(a)** Equipment Identification 40 CFR 270.25(a), 40 CFR 264.1050, 40 CFR 264.1064(g)(1)

For each unit managing waste containing organic compound concentrations of at least 10 percent by weight, identify all associated equipment. Show equipment and hazardous waste management unit identification numbers; locations within the facility on a facility plot plan; type of equipment; light or heavy liquid designation; percent by weight of total organic compounds in the hazardous waste stream at the equipment; hazardous waste state at the equipment; method of compliance with the equipment leak standard, such as, monthly leak detection and repair. This information can be presented in a table to help clarify the information.

**BB-1(b)** Excluded Equipment 40 CFR 264.1050(e) and (f)

- (1) For any equipment in vacuum service, provide a list of identification numbers.
- (2) For any equipment that contains or contacts hazardous waste or hazardous waste residues with an organic concentration of at least 10 percent by weight for less than 300 hours per calendar year, provide identification of equipment either by list or location.

**BB-1(c) Leak Detection Monitoring Procedures** 40 CFR 264.1063

Describe in detail the leak detection monitoring procedures for equipment pursuant to 40 CFR 264.1063.

**BB-1(d) Equipment with No Detectable Emissions** 40 CFR 264.1064(g)(2)

Provide a list of identification numbers for equipment designated for no detectable emissions and a statement signed by the owner or operator that the equipment is subject to the requirements of 40 CFR 264.1052(e), 264.1053(i), or 264.1057(f).

**BB-2 Waste Streams**

Identify waste stream(s) associated with each unit identified above.

**BB-2(a) Organic Compound Concentration Determination Via Direct Measurement**  
40 CFR 264.1063(d)(1) and (2)

If direct measurement was used to determine the total organic concentration of each waste stream, provide the method used. If direct measurement information is contained in a separate report, reference the report and include it as an attachment.

**BB-2(a)(1) Sampling Parameters** 40 CFR 264.1063(d)(1) and (2)

Describe waste stream sampling procedures and show how those procedures comply with 40 CFR 264.1034(d)(1)(i) and (ii). For example, a minimum of four grab samples of each waste for each waste stream managed in an affected unit must be collected under process conditions expected to cause the maximum total organic compound concentration. Samples also must be collected at a point before the waste is exposed to the atmosphere. If sampling information is contained in a separate report, reference the report along with the specific report section in which the information is found, and attach the report.

**BB-2(a)(2) Analytical Results** 40 CFR 264.1063(d)(1) and (2)

Show waste stream analytical results and methods. Demonstrate that total organic compound concentrations are computed by using Methods 9060 or 8260 of Test Methods for Evaluating Solid Waste, Physical/Chemical Methods (SW-846). If analytical results are contained in a separate report, reference the report, along with the specific report section in which the information is found, and attach the report.

**BB-2(b) Organic Compound Concentration Determination Via Process Knowledge**  
40 CFR 264.1063(d)(3)

Describe documentation that is used to determine the total organic concentration of waste streams based on knowledge of waste and processes by which it is generated. For example, show that no organic compounds are used in the process or that the waste is identical to that generated at another facility that has been shown by direct measurement to contain less than 10 percent by weight of total organic concentrations. If this information is contained in a separate report, reference the report along with the specific report section in which the information is found, and attach the report.

**BB-2(c) Date and Frequency of Determination** 40 CFR 264.1063(d)

Provide dates and frequencies of total organic compound concentration determinations for all applicable wastes.

**BB-2(d) Light or Heavy Liquid Designation** 40 CFR 264.1063(h)

Show the method for determining if pumps or valves are in light liquid service and show the results of the determinations. In other words, show the vapor pressures of waste constituents and from where those vapor pressures were obtained.

**BB-3 Pump Standards Light Liquid Service** 40 CFR 264.1052

Describe pump design standards, monitoring procedures, and operating procedures for pumps in light liquid service. If the pump is exempt, describe how the exemption requirements are met.

**BB-4 Compressor Standards** 40 CFR 264.1053

Describe compressor design standards, monitoring procedures, and operating procedures. If the compressor is exempt, describe how the exemption requirements are met.

**BB-5 Pressure Relief Devices** 40 CFR 264.1054

State that each pressure relief device in gas/vapor service will be operated with no detectable emissions, except during pressure releases and in compliance with 40 CFR 264.1054(b). If the pressure relief device is exempt, describe how the exemption requirements are met.

**BB-6 Sampling Connection Systems** 40 CFR 264.1055

Describe the sampling connection system (closed-purge, closed-loop, or closed vent) and how it complies with the requirements of 40 CFR 264.1055(b). If the system is exempt under 40 CFR 264.1055(c), describe how the exemption is met.

**BB-7 Open-ended Valves or Lines** 40 CFR 264.1056

Describe how each open-ended valve or line complies with 40 CFR 264.1056.

**BB-8 Standards for Valves in Gas/Vapor or Light Liquid Service** 40 CFR 264.1057, 40 CFR 264.1061, 40 CFR 264.1062

Describe how the standards of 40 CFR 264.1057 are met for each valve in gas/vapor or light liquid service. If alternative standards under 40 CFR 264.1061 or 1062 are chosen, describe how the alternative standard requirements are met.