

**Section A: Inspection Information**

Inspection Date(s)	DNR Inspector	DNR Region
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**Section B: Facility Information**

Facility Name	EPA ID Number	Facility ID (FID) Number
Street Address	City	Zip Code

All "NR" references are to the Wisconsin Administrative Code. When entering information into the Field Investigator Site Tracking (FIST) database, only enter the **bold** citation into the Code or Statute Citation field. Use NR 664 citations for licensed facilities; use NR 662.034(1)(a) for large generators, which requires the LQG to comply with subch. CC standards in ch. NR 665 (interim licensed facility standards). This inspection report includes the following:

- Section C: Container Level 2 Standards
- Section D: Container Level 3 Standards
- Section E: Tank Level 2 Standards – Fixed-Roof Tank with an Internal Floating Roof
- Section F: Tank Level 2 Standards – External Floating Roof
- Section G: Tank Level 2 Standard - Tank Vented to a Control Device
- Section H: Tank Level 2 Standards – Pressure Tank
- Section I: Level 2 Standards – Enclosure Vented through a Closed-Vent System to a Combustion Control Device
- Section J: Standards for Closed Vent Systems and Control Devices – Vapor Incinerators
- Section K: Standards for Closed Vent Systems and Control Devices – Condensers
- Section L: Standards for Closed Vent Systems and Control Devices - Boiler or Process Heater
- Section M: Standards for Closed Vent Systems and Control Devices - Flares
- Section N: Standards for Closed Vent Systems and Control Devices - Carbon Adsorption Units
- Section O: General Standards for All Closed-Vent Systems and Control Devices
- Section P: Standards for Closed Vent Systems and Control Devices - Recordkeeping Requirements

**Section C: Container Level 2 Standards**

	1. Does the facility manage hazardous waste containers with a design capacity >119 gallons that are in light material service? If NO, go to Section D.	<input type="checkbox"/> Yes <input type="checkbox"/> No
	2. Are any of the following controls used on Level 2 containers? <input type="checkbox"/> Container meets applicable US DOT packaging requirements. <input type="checkbox"/> Each potential leak interface where organic vapor leakage could occur on the container, cover and closure device has been checked to determine that no detectable organic emissions (< 500 ppmv) are occurring. ___ Checks are made on the interface of the cover rim and the container wall; the periphery of any opening on the container or container cover and its associated closure device; and, the sealing seat interface on a spring-loaded, pressure-relief valve. ___ The test was performed when the container was filled with a material having a VO concentration representative of the hazardous waste expected to be stored in the container. <input type="checkbox"/> A demonstration has been made within the preceding 12 months to show that the container is vapor-tight using Method 27 in appendix A of 40 CFR part 60. ___ A pressure change of 750 Pascals or less occurs within 5 minutes of the container being pressurized to at least 4,500 Pascals.	<input type="checkbox"/> Yes <input type="checkbox"/> No
<b>NR 662.034(1)(a)2.</b> <b>NR 664.1086(4)(a)</b> NR 665.1087(4)(a)	3. Does the facility maintain a copy of the procedure used to determine that containers which are >119 gallons in size and do not meet DOT requirements, are not managing hazardous waste in light material service?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
<b>NR 662.034(1)(a)2.</b> <b>NR 664.1086(3)(e)</b> NR 665.1087(3)(e)		

<p><b>NR 662.034(1)(a)2.</b>  <b>NR 664.1086(4)(b)</b>          NR 665.1087(4)(b)</p>	<p>4. Are wastes transferred in or out of the container using level 2 controls that minimize exposure to the atmosphere (submerged-fill pipe, vapor-recovery system, etc.) to the extent practical, considering the physical properties of the hazardous waste and good engineering and safety practices?</p>	<p><input type="checkbox"/> Yes    <input type="checkbox"/> No</p>
<p><b>NR 662.034(1)(a)2.</b>  <b>NR 664.1086(4)(c)1.a.</b>          NR 665.1087(4)(c)1.a.</p>	<p>5. If the container is filled to the final level in one continuous operation, are the closure devices promptly secured in the closed position when the filling operation is concluded?</p>	<p><input type="checkbox"/> Yes    <input type="checkbox"/> No</p>
<p><b>NR 662.034(1)(a)2.</b>  <b>NR 664.1086(4)(c)1.b.</b>          NR 665.1087(4)(c)1.b.</p>	<p>6. If the container is batch filled, are the closure devices promptly secured in a closed position when any of the following occurs?  <input type="checkbox"/> Upon filling the container to the intended final level.  <input type="checkbox"/> The batch loading is completed and any of the following first occurs:            ___ No additional material will be added within 15 minutes.            ___ The person performing the loading operation leaves the immediate vicinity of the container.            ___ The process generating the waste shuts down.</p>	<p><input type="checkbox"/> Yes    <input type="checkbox"/> No    <input type="checkbox"/> N/A</p>
<p><b>NR 662.034(1)(a)2.</b>  <b>NR 664.1086(4)(c)2.b.</b>          NR 665.1087(4)(c)2.b.</p>	<p>7. If containers are opened to remove hazardous waste, are closure devices secured in the closed position upon completion of a batch removal and either of the following first occurs?  <input type="checkbox"/> No additional materials will be removed within 15 minutes.  <input type="checkbox"/> The person removing the waste leaves the immediate vicinity of the container.</p>	<p><input type="checkbox"/> Yes    <input type="checkbox"/> No    <input type="checkbox"/> N/A</p>
<p><b>NR 662.034(1)(a)2.</b>  <b>NR 664.1086(4)(c)3.</b>          NR 665.1087(4)(c)3.</p>	<p>8. If access to the inside of the container is needed to perform routine activities other than the transfer of hazardous waste (e.g., sampling), is the closure device secured in the closed position promptly after completing the activity?</p>	<p><input type="checkbox"/> Yes    <input type="checkbox"/> No    <input type="checkbox"/> N/A</p>
<p><b>NR 662.034(1)(a)2.</b>  <b>NR 664.1086(4)(c)4.</b>          NR 665.1087(4)(c)4.</p>	<p>9. If the container is equipped with a pressure relief device that vents to the atmosphere, are all of the following conditions met?  <input type="checkbox"/> The device is designed to operate with no detectable organic emissions when in the closed position.  <input type="checkbox"/> The device is closed when the internal pressure is within the specified operating range.  <input type="checkbox"/> The device opens and vents to the atmosphere only for the purpose of maintaining internal pressure according to the design specifications.</p>	<p><input type="checkbox"/> Yes    <input type="checkbox"/> No    <input type="checkbox"/> N/A</p>
<p><b>NR 662.034(1)(a)2.</b>  <b>NR 664.1086(4)(c)5.</b>          NR 665.1087(4)(c)5.</p>	<p>10. Are safety valves only opened to avoid an unsafe condition?</p>	<p><input type="checkbox"/> Yes    <input type="checkbox"/> No    <input type="checkbox"/> N/A</p>
<p><b>NR 662.034(1)(a)2.</b>  <b>NR 664.1086(4)(d)3.</b>          NR 665.1087(4)(d)3.</p>	<p>11. When a defect is detected, are the following repairs made?  <input type="checkbox"/> Initial repair efforts are made within 24 hours of detection and completed within 5 calendar days  <input type="checkbox"/> If repairs cannot be completed in 5 days, the waste is removed from the container which is not used until the defect is repaired.</p>	<p><input type="checkbox"/> Yes    <input type="checkbox"/> No    <input type="checkbox"/> N/A</p>
<p><b>NR 662.034(1)(a)2.</b>  <b>NR 664.1086(4)(d)1.</b>          NR 665.1087(4)(d)1.</p>	<p>12. When first taking possession of a container that will not be emptied within 24 hours, does the treatment, storage or disposal facility visually inspect the container, cover and closure device for visible cracks, holes, gaps or other open spaces on or before the date the facility accepts the container (e.g., signs the manifest)?</p>	<p><input type="checkbox"/> Yes    <input type="checkbox"/> No    <input type="checkbox"/> N/A</p>
<p><b>NR 662.034(1)(a)2.</b>  <b>NR 664.1086(4)(d)2.</b>          NR 665.1087(4)(d)2.</p>	<p>13. If the container remains at the treatment, storage or disposal facility for one year or more, is the container, its cover and closure devices visually inspected initially and at least once every 12 months for cracks, gaps or other open spaces?</p>	<p><input type="checkbox"/> Yes    <input type="checkbox"/> No    <input type="checkbox"/> N/A</p>
<p><b>NR 662.034(1)(a)2.</b>  <b>NR 664.0015(4)</b>          NR 665.0015(4)</p>	<p>14. If the facility has been issued a final or interim license, are the results of the inspections maintained in an inspection log for at least 3 years?</p>	<p><input type="checkbox"/> Yes    <input type="checkbox"/> No    <input type="checkbox"/> N/A</p>

**Section D: Container Level 3 Standards**

<p>1. Does the facility manage hazardous waste in containers having a design capacity &gt;26 gallons during a waste stabilization process when hazardous waste is exposed to the atmosphere? If NO, go to Section E.</p>	<p><input type="checkbox"/> Yes    <input type="checkbox"/> No</p>
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NR 662.034(1)(a)2. NR 664.1086(5)(a) NR 665.1087(5)(a)	2. Is one of the following controls used on Level 3 containers? ___ The container is vented directly through a closed-vent system to a control device. ___ The container is vented inside an enclosure which is exhausted through a closed-vent system to a control device.	<input type="checkbox"/> Yes <input type="checkbox"/> No
NR 662.034(1)(a)2. NR 664.1086(5)(b)1. NR 665.1087(5)(b)1.	3. If the container is vented inside an enclosure, is the enclosure operated according to the criteria for permanent total enclosures found in Method 204 in appendix M of 40 CFR part 51?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
NR 662.034(1)(a)2. NR 664.1089(4)(a) NR 665.1090(4)(a)	4. Are records for the most recent set of calculations and measurements verifying the enclosure meets the criteria for a permanent total enclosure in Method 204 in appendix M of 40 CFR part 51 maintained at the facility?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
NR 662.034(1)(a)2. NR 664.1086(5)(f) NR 665.1087(5)(f)	5. If wastes are transferred in or out of the container, are level 3 controls used that minimize exposure to the atmosphere (e.g., submerged-fill pipe, vapor-recovery system, etc.) to the extent practical, considering the physical properties of the hazardous waste and good engineering and safety practices?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
<b>Section E: Tank Level 2 Standards – Fixed-Roof Tank with an Internal Floating Roof</b>		
	1. Does the facility manage hazardous waste in a fixed roof tank with an internal floating roof subject to subch. CC requirements? If NO, go to Section F.	<input type="checkbox"/> Yes <input type="checkbox"/> No
NR 662.034(1)(a)2. NR 664.1089(2)(b)2. NR 665.1090(2)(b)2.	2. Is documentation describing the floating roof design maintained at the facility?	<input type="checkbox"/> Yes <input type="checkbox"/> No
NR 662.034(1)(a)2. NR 664.1084(5)(a)1. NR 665.1085(5)(a)1.	3. Does the internal floating roof float on the liquid surface except when the floating roof is supported by the leg supports?	<input type="checkbox"/> Yes <input type="checkbox"/> No
NR 662.034(1)(a)2. NR 664.1084(5)(a)2. NR 665.1085(5)(a)2.	4. Is the internal floating roof equipped with a continuous seal between the wall of the tank and the floating roof edge that meets either of the following? <input type="checkbox"/> The single continuous seal is a liquid-mounted seal or a metallic shoe seal. <input type="checkbox"/> Two continuous seals are mounted one above the other.	<input type="checkbox"/> Yes <input type="checkbox"/> No
NR 662.034(1)(a)2. NR 664.1084(5)(a)3. NR 665.1085(5)(a)3.	5. Does the internal floating roof meet all of the following specifications? <input type="checkbox"/> Each opening in a non-contact internal floating roof has a projection below the liquid surface, except for automatic bleeder vents and rim space vents. <input type="checkbox"/> Each opening has a gasketed cover or lid, except for leg sleeves, automatic bleeder vents, rim space vents, column wells, ladder wells, sample wells and stub drains. <input type="checkbox"/> Each penetration of the internal floating roof for sampling has a slit fabric cover covering at least 90% of the opening. <input type="checkbox"/> Each automatic bleeder vent and rim space vent is gasketed. <input type="checkbox"/> Each penetration for passage of a ladder has a gasketed sliding cover. <input type="checkbox"/> Each penetration for passage of a column supporting the fixed roof has a flexible fabric sleeve seal or gasketed sliding cover.	<input type="checkbox"/> Yes <input type="checkbox"/> No
NR 662.034(1)(a)2. NR 664.1084(5)(b) NR 665.1085(5)(b)	6. Is the tank operated according to all of the following? <input type="checkbox"/> When the floating roof is resting on leg supports, the process of filling or emptying is continuous and completed as soon as practical. <input type="checkbox"/> When the roof is floating, automatic bleeder vents are closed at all times, except when the roof is floated off or being landed on leg supports. <input type="checkbox"/> Before filling, each cover, access hatch, gauge float well or lid is fastened or bolted closed. <input type="checkbox"/> Rim space vents are set to open only when the internal floating roof is not floating or the pressure beneath the rim exceeds the manufacturer's recommended setting.	<input type="checkbox"/> Yes <input type="checkbox"/> No

**NR 662.034(1)(a)2.**  
**NR 664.1084(5)(c)1.**  
 NR 665.1085(5)(c)1.

7. Are the internal floating roof and its closure devices visually inspected for the following defects that could cause air emissions?  
 The internal floating roof is not floating on the surface of the liquid inside the tank.  
 Liquid has accumulated on the top of the internal floating roof.  Yes  No  
 A portion of the roof seals have detached from the roof rim.  
 Holes, tears, or other openings are visible in the seal fabric.  
 Gaskets do not close off the hazardous waste surface from the atmosphere.  
 The slotted membrane has more than 10% open area.

**NR 662.034(1)(a)2.**  
**NR 664.1084(5)(c)3.**  
 NR 665.1085(5)(c)3.

8. If the roof has 2 continuous seals mounted one above the other, are the internal floating roof, primary and secondary seals, gaskets, slotted membranes and sleeve seals visually inspected each time the tank is emptied and degassed, and at least every 5 years.  Yes  No  N/A

**NR 662.034(1)(a)2.**  
**NR 664.1084(5)(c)2.**  
 NR 665.1085(5)(c)2.

9. Are the following inspections conducted?  
 Components of the floating roof are visually inspected through openings on the fixed-roof at least once every 12 months after the initial fill.  Yes  No  
 The internal floating roof, primary seal, secondary seal, gaskets, slotted membranes and sleeve seals are visually inspected each time the tank is emptied and degassed, and at least every 10 years.

**NR 662.034(1)(a)2.**  
**NR 664.1084(5)(c)4.**  
 NR 665.1085(5)(c)4.

10. Is the department given the following notification of an inspection?  
 Written notification is received 30 days before filling an emptied and degassed tank.  Yes  No  N/A  
 If an unplanned inspection, notify by telephone and follow-up with a written explanation of why the unplanned inspection occurred so it is received 7 calendar days before refilling the tank.

**NR 662.034(1)(a)2.**  
**NR 664.1084(5)(c)5.**  
 NR 665.1085(5)(c)5.

11. Are first efforts of repair made within 5 calendar days of detection and completed no later than 45 calendar days?  
 \_\_\_ Repair is delayed until the next time the process or unit generating the waste stops operation because the tank must be emptied for repair and there is no alternate tank capacity.  Yes  No  N/A

**NR 662.034(1)(a)2.**  
**NR 664.1084(5)(c)6.**  
 NR 665.1085(5)(c)6.

12. Are inspection records maintained for at least 3 years which include all of the following?  
 The tank ID#.  
 The date of inspection.  Yes  No  
 The location and description of the defect.  
 The date the problem was detected and the corrective action taken.  
 The reason repair was delayed and the date of completion, if applicable.

**Section F: Tank Level 2 Standards – External Floating Roof**

**NR 662.034(1)(a)2.**  
**NR 664.1084(6)(a)1.**  
 NR 665.1085(6)(a)1.

1. Does the facility manage hazardous waste in a tank with an external floating roof subject to subch. CC requirements? If NO, go to Section G.  Yes  No

**NR 662.034(1)(a)2.**  
**NR 664.1084(6)(a)1.**  
 NR 665.1085(6)(a)1.

2. Is the external floating roof designed to float on the liquid surface except when the floating roof is supported by the leg supports?  Yes  No

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3. Is the floating roof equipped with 2 continuous seals, one above the other between the wall of the tank and the roof edge, which meet all of the following requirements?

**NR 662.034(1)(a)2.**  
**NR 664.1084(6)(a)2.**  
NR 665.1085(6)(a)2.

The total area of the gaps between the tank wall and the primary seal does not exceed 212 cm<sup>2</sup>/m of tank diameter and the width of any portion of the gaps does not exceed 3.8 cm.

The primary or lower seal is a liquid-mounted seal or a metallic shoe seal.  
 A metallic shoe seal used as a primary seal has one end extending into the liquid and the other end extending a vertical distance of at least 61 cm above the liquid surface.

Yes  No

The secondary seal is mounted above the primary seal and the annular space between the floating roof and the wall of the tank is covered.

The total area of gaps between the tank wall and the secondary seal does not exceed 21.2 cm<sup>2</sup>/m of tank diameter and the width of any portion of these gaps does not exceed 1.3 cm.

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4. Does the external floating roof meet all of the following specifications?

**NR 662.034(1)(a)2.**  
**NR 664.1084(6)(a)3.**  
NR 665.1085(6)(a)3.

All openings in a non-contact external floating roof project below the liquid surface, except for automatic bleeder vents and rim space vents.

Each opening in the roof is equipped with a gasketed cover, seal or lid, except for automatic bleeder vents, rim space vents, roof drains and leg sleeves.

Each access hatch and gauge float well is equipped with a cover designed to be bolted or fastened when the cover is secured in the closed position.

Each automatic bleeder vent and rim space vent is equipped with a gasket.

Each roof drain that empties into the liquid in the tank is equipped with a slotted membrane fabric cover that covers at least 90% of the area of the opening.

Yes  No

Each unslotted and slotted guide pole well is equipped with a gasketed sliding cover or a flexible fabric sleeve seal.

Each unslotted guide pole is equipped with a gasketed cap on the end of the pole.

Each slotted guide pole is equipped with a gasketed float or other device which closes off the liquid surface from the atmosphere.

Each gauge hatch and sample well is equipped with a gasketed cover.

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5. Is the tank operated according to all of the following?

**NR 662.034(1)(a)2.**  
**NR 664.1084(6)(b)**  
NR 665.1085(6)(b)

When the floating roof is resting on the leg supports, the process of filling or emptying is continuous and completed as soon as practical.

Except for automatic bleeder vents, rim space vents, roof drains and leg sleeves, each opening in the roof is secured and maintained in the closed position except when open for access.

Covers are fastened or bolted on each access hatch and gauge float well when secured in the closed position.

Automatic bleeder vents are set to closed when the roof is floating, except when the roof is being floated off or being landed on the leg supports.

Rim space vents are set to open when the roof is being floated off the roof leg supports or when the pressure beneath the rim seal exceeds the manufacturer's recommended setting.

Yes  No

The cap on the end of each unslotted guide pole is secured in the closed position except when measuring the liquid level or sampling the liquid.

The cover on each gauge hatch or sample well is secured in the closed position except when opened for access.

The primary and secondary seals completely cover the annular space between the external floating roof and the wall of the tank in a continuous fashion, except during inspections.

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<b>NR 662.034(1)(a)2.</b> <b>NR 664.1084(6)(c)1.</b> NR 665.1085(6)(c)1.	<p>6. Are all of the following inspections conducted on the external floating roof?</p> <p><input type="checkbox"/> Gaps between the tank wall and the primary seal are measured within 60 days of initial operation and then at least once every 5 years.</p> <p><input type="checkbox"/> Gaps between the tank wall and secondary seal are measured within 60 days of initial operation and then at least once every year. <span style="float: right;"><input type="checkbox"/> Yes <input type="checkbox"/> No</span></p> <p>Note: If the tank does not hold hazardous waste for one year or more, subsequently adding hazardous waste to the tank is considered an initial operation per NR 664.1084(6)(c)1.c. and NR 665.1085(6)(c)1.c.</p>
<b>NR 662.034(1)(a)2.</b> <b>NR 664.1089(2)(b)3.</b> NR 665.1090(2)(b)3.	<p>7. Are all of the following records maintained at the facility?</p> <p><input type="checkbox"/> Description of the floating roof design and dimensions of the tank.</p> <p><input type="checkbox"/> Records for each seal gap inspection include all of the following:</p> <p>    ___ The date the measurements were performed.</p> <p>    ___ The raw data obtained for the measurements. <span style="float: right;"><input type="checkbox"/> Yes <input type="checkbox"/> No</span></p> <p>    ___ The calculations of the total gap surface area.</p> <p>    ___ A description of repairs that were made.</p> <p>    ___ The date repairs were made.</p> <p>    ___ The date the tank was emptied, if necessary.</p>
<b>NR 662.034(1)(a)2.</b> <b>NR 664.1084(6)(c)2.a.</b> NR 665.1085(6)(c)2.a.	<p>8. Are the external floating roof and its closure devices visually inspected for the following defects that could cause air pollutant emissions?</p> <p><input type="checkbox"/> Holes, tears or other openings in the rim seal or seal fabric of the floating roof.</p> <p><input type="checkbox"/> A rim seal detached from the floating roof. <span style="float: right;"><input type="checkbox"/> Yes <input type="checkbox"/> No</span></p> <p><input type="checkbox"/> All or a portion of the floating roof deck being submerged below the surface of the liquid in the tank.</p> <p><input type="checkbox"/> Broken, cracked or otherwise damaged seals or gaskets on closure devices.</p> <p><input type="checkbox"/> Broken or missing hatches, access covers, caps or other closure devices.</p>
<b>NR 662.034(1)(a)2.</b> <b>NR 664.1084(6)(c)2.b.</b> NR 665.1085(6)(c)2.b.	<p>9. Are visual inspections done according to all of the following?</p> <p><input type="checkbox"/> An initial visual inspection was performed on the external floating roof and its closure devices on or before the date the tank became subject to CC requirements.</p> <p><input type="checkbox"/> At least once every year.</p> <p><input type="checkbox"/> If more than a year lapses between visual inspections, all of the following have been met:</p> <p>    ___ The external floating roof or closure device has been designated as "unsafe to inspect and monitor". <span style="float: right;"><input type="checkbox"/> Yes <input type="checkbox"/> No</span></p> <p>    ___ A written explanation stating the reasons why the floating roof or closure device is unsafe to visually inspect or monitor has been prepared.</p> <p>    ___ A written plan and schedule for inspecting and monitoring the roof or closure device has been developed and implemented which allows for inspections as frequently as practical when a worker can gain safe access.</p>
<b>NR 662.034(1)(a)2.</b> <b>NR 664.1084(6)(c)3.</b> NR 665.1085(6)(c)3.	<p>10. Is the department given the following notification of an inspection?</p> <p><input type="checkbox"/> Written notification at least 30 days before filling an emptied and degassed tank or measuring external floating roof seal gaps. <span style="float: right;"><input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A</span></p> <p><input type="checkbox"/> If an unplanned inspection, notify by telephone and follow-up with a written explanation of why the unplanned inspection occurred so it is received 7 calendar days before refilling the tank.</p>
<b>NR 662.034(1)(a)2.</b> <b>NR 664.1084(6)(c)2.c.</b> NR 665.1085(6)(c)2.c.	<p>11. Are first efforts of repair made within 5 calendar days of detection and completed no later than 45 calendar days?</p> <p>    ___ Repair is delayed until the next time the process or unit generating the waste stops operation because the tank must be emptied for repair and there is no alternate tank capacity. <span style="float: right;"><input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A</span></p>

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NR 662.034(1)(a)2. NR 664.1084(6)(c)2.d. NR 665.1085(6)(c)2.d.	12. Are inspection records maintained for at least 3 years which include all of the following? <input type="checkbox"/> The tank ID#. <input type="checkbox"/> The date of inspection. <input type="checkbox"/> The location and description of the defect. <input type="checkbox"/> The date the problem was detected and the corrective action taken. <input type="checkbox"/> The reason repair was delayed and the date of completion, if applicable.	<input type="checkbox"/> Yes <input type="checkbox"/> No
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**Section G: Tank Level 2 Standard - Tank Vented to a Control Device**

NR 662.034(1)(a)2. NR 664.1084(7)(a) NR 665.1085(7)(a)	1. Does the facility manage hazardous waste in a tank subject to subch. CC requirements that is vented to a control device? If NO, go to Section H.	<input type="checkbox"/> Yes <input type="checkbox"/> No
NR 662.034(1)(a)2. NR 664.1084(7)(a) NR 665.1085(7)(a)	2. Is the tank covered with a fixed roof and vented directly through a closed-vent system to a control device?	<input type="checkbox"/> Yes <input type="checkbox"/> No
NR 662.034(1)(a)2. NR 664.1084(7)(a)1. NR 665.1085(7)(a)1.	3. Do the fixed roof and closure devices form a continuous barrier over the entire surface area of the liquid?	<input type="checkbox"/> Yes <input type="checkbox"/> No
NR 662.034(1)(a)2. NR 664.1084(7)(a)2. NR 665.1085(7)(a)2.	4. Is each opening in the fixed roof that is not vented to the control device equipped with a closure device according to the following? <input type="checkbox"/> If the pressure in the vapor headspace underneath the fixed roof is less than atmospheric pressure, the closure device operates with no visible cracks, holes or other open spaces. <input type="checkbox"/> If the pressure in the vapor headspace underneath the fixed roof is equal to or greater than atmospheric pressure, the closure devices operate with no detectable organic emissions (<500 ppmv) .	<input type="checkbox"/> Yes <input type="checkbox"/> No
NR 662.034(1)(a)2. NR 664.1084(7)(a)3. NR 665.1085(7)(a)3.	5. Are the fixed roof and closure devices made of suitable materials to minimize exposure of hazardous waste to the atmosphere and maintain integrity throughout their intended service life?	<input type="checkbox"/> Yes <input type="checkbox"/> No
NR 662.034(1)(a)2. NR 664.1084(7)(b)1. NR 665.1085(7)(b)1.	6. Is the fixed roof installed with each closure device secured in the closed position except to conduct routine inspections or remove sludge from the tank?	<input type="checkbox"/> Yes <input type="checkbox"/> No
NR 662.034(1)(a)2. NR 664.1084(7)(b)1. NR 665.1085(7)(b)1.	7. Is the vapor headspace underneath the fixed roof vented to the control device except to conduct routine inspections or remove sludge from the tank?	<input type="checkbox"/> Yes <input type="checkbox"/> No
NR 662.034(1)(a)2. NR 664.1084(7)(b)2. NR 665.1085(7)(b)2.	8. Are safety devices only opened to avoid an unsafe condition?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
NR 662.034(1)(a)2. NR 664.1084(7)(c)1. NR 665.1085(7)(c)1.	9. Are the fixed roof and closure devices visually inspected for defects that could result in air pollutant emissions, including all of the following? <input type="checkbox"/> Visible cracks, holes or gaps in the roof sections or between the roof and the tank wall. <input type="checkbox"/> Broken, cracked or otherwise damaged seals or gaskets on closure devices. <input type="checkbox"/> Broken or missing hatches, access covers, caps or other closure devices.	<input type="checkbox"/> Yes <input type="checkbox"/> No
NR 662.034(1)(a)2. NR 664.1084(7)(c)3. NR 665.1085(7)(c)3.	10. Are visual inspections done according to all of the following? <input type="checkbox"/> An initial visual inspection was performed on the external floating roof and its closure devices on or before the date the tank became subject to CC requirements. <input type="checkbox"/> Conducted at least once every year. <input type="checkbox"/> If more than a year lapses between visual inspections, all of the following have been met: ___ A cover has been designated as “unsafe to inspect and monitor”. ___ A written explanation stating the reasons why the cover is unsafe to visually inspect or monitor has been prepared. ___ A written plan and schedule for inspecting and monitoring the cover has been developed and implemented which allows for inspections as frequently as practical during those times when a worker can gain safe access.	<input type="checkbox"/> Yes <input type="checkbox"/> No

<b>NR 662.034(1)(a)2.</b> <b>NR 664.1084(11)</b> NR 665.1085(11)	11. Are first efforts of repair made within 5 calendar days of detection and completed no later than 45 calendar days? ___ Repair is delayed until the next time the process or unit generating the waste stops operation because the tank must be emptied for repair and there is no alternate tank capacity.	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
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<b>NR 662.034(1)(a)2.</b> <b>NR 664.1089(2)(a)</b> NR 665.1090(2)(a)	12. Are inspection records maintained for at least 3 years which include all of the following? <input type="checkbox"/> The tank ID#. <input type="checkbox"/> The date of inspection. <input type="checkbox"/> The location and description of the defect. <input type="checkbox"/> The date the problem was detected and the corrective action taken. <input type="checkbox"/> The reason repair was delayed and the date of completion, if applicable.	<input type="checkbox"/> Yes <input type="checkbox"/> No
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**Section H: Tank Level 2 Standards – Pressure Tank**

	1. Does the facility manage hazardous waste in a pressure tank subject to subch. CC requirements? If NO, go to Section I.	<input type="checkbox"/> Yes <input type="checkbox"/> No
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<b>NR 662.034(1)(a)2.</b> <b>NR 664.1084(8)(a)</b> NR 665.1085(8)(a)	1. When the tank is filled to its design capacity, does venting to the atmosphere not occur due to the compression of the vapor headspace in the tank?	<input type="checkbox"/> Yes <input type="checkbox"/> No
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<b>NR 662.034(1)(a)2.</b> <b>NR 664.1084(8)(b)</b> NR 665.1085(8)(b)	2. Are all tank openings equipped with closure devices designed to operate with no detectable organic emissions (< 500 ppmv)?	<input type="checkbox"/> Yes <input type="checkbox"/> No
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<b>NR 662.034(1)(a)2.</b> <b>NR 664.1084(8)(c)</b> NR 665.1085(8)(c)	3. Is the tank operated as a closed system that does not vent to the atmosphere except when a safety device is opened to avoid an unsafe condition or when the tank is purged? <input type="checkbox"/> When purged, the purge stream is directed to the closed-vent system and control device.	<input type="checkbox"/> Yes <input type="checkbox"/> No
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**Section I: Level 2 Standards – Enclosure Vented through a Closed-Vent System to a Combustion Control Device**

<b>NR 662.034(1)(a)2.</b> <b>NR 664.1084(9)(a)</b> NR 665.1085(9)(a)	1. Is the tank located inside an enclosure designed and operated according to Method 204 of appendix M of 40 CFR part 51? If NO, go to Section J.	<input type="checkbox"/> Yes <input type="checkbox"/> No
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<b>NR 662.034(1)(a)2.</b> <b>NR 664.1089(2)(b)4.</b> NR 665.1090(2)(b)4.	2. Are the most recent set of calculations and measurements verifying that the enclosure meets the criteria for a permanent total enclosure in Method 204 in appendix M of 40 CFR part 51 maintained at the facility?	<input type="checkbox"/> Yes <input type="checkbox"/> No
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**Section J: Standards for Closed Vent Systems and Control Devices – Vapor Incinerators**

	1. Is the control device a vapor incinerator? If NO, go to Section K.	<input type="checkbox"/> Yes <input type="checkbox"/> No
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<b>NR 662.034(1)(a)2.</b> <b>NR 664.1087(3)(a)2.</b> NR 665.1088(3)(a)2.  NR 664.1033(3) NR 665.1033(3)	2. Is the vapor incinerator designed and operated to result in any of the following? <input type="checkbox"/> Reduce the organic emissions by 95 weight percent or greater. <input type="checkbox"/> Achieve a total organic compound concentration of 20 ppmv, expressed as the sum of actual compounds on a dry basis corrected to 3% oxygen. <input type="checkbox"/> Provide a minimum residence time of 0.50 seconds at a minimum temperature of 760°C.	<input type="checkbox"/> Yes <input type="checkbox"/> No
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<b>NR 662.034(1)(a)2.</b> <b>NR 664.1087(3)(g)</b> NR 665.1088(3)(g)  NR 664.1033(6)(b) NR 665.1033(6)(b)	3. Is a temperature monitoring device with a continuous recorder maintained and operated to continuously monitor the operation of the thermal or catalytic vapor incinerator?	<input type="checkbox"/> Yes <input type="checkbox"/> No
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4. If performance tests were conducted, do they comply with all of the following?

Total organic compound concentrations and mass flow rates entering and exiting the control device are determined according to all of the following:

Method 2 in appendix A of 40 CFR part 60 is used to determine the velocity and volumetric flow rate.

Method 18 in appendix A of 40 CFR part 60 is used to determine organic content.

Each performance test consists of 3 separate runs at least one hour each, under the highest load or capacity expected.

Total organic mass flow rate and annual total organic emission rates are determined by performing the correct calculations.

The total organic emissions from all affected process vents are calculated by adding the hourly total organic mass emission rates and by adding the annual total organic mass emission rates.  Yes  No  N/A

All process information, including representative conditions, used during the performance tests are recorded.

Information that the following performance testing facilities were made available:

Adequate sampling ports for the required test methods.

A safe sampling platform.

Safe access to the sampling platform.

Utilities for sampling and testing equipment.

The time-weighted average of the results from 3 runs is used to determine compliance.

NR 662.034(1)(a)2.  
 NR 664.1087(3)(e)4.  
 NR 665.1088(3)(e)4.

NR 664.1035(2)(d)3  
 NR 665.1035(2)(d)3

5. If engineering calculations are used for a thermal vapor incinerator, does the design analysis address both of the following?

Considers the vent stream composition, constituent concentrations and flow rate.  Yes  No  N/A

Establishes the design minimum, the average temperature in the combustion zone and the combustion zone residence time.

NR 662.034(1)(a)2.  
 NR 664.1087(3)(e)4.  
 NR 665.1088(3)(e)4.

NR 664.1035(2)(d)3.  
 NR 665.1035(2)(d)3.

6. If engineering calculations are used for a catalytic vapor incinerator does the design analysis address both of the following?

Considers the vent stream composition, constituent concentrations and flow rate.  Yes  No  N/A

Establishes the design minimum and average temperatures across the catalyst bed inlet and outlet.

**Section K: Standards for Closed Vent Systems and Control Devices – Condensers**

1. Is the control device a condenser? If NO, go to Section L.  Yes  No

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NR 662.034(1)(a)2.  
 NR 664.1087(3)(g)  
 NR 665.1088(3)(g)

2. Is one of the following devices maintained and operated to continuously monitor the operation of the condenser?

A monitoring device with a continuous recorder to measure the organic compound concentration level in the exhaust vent stream from the condenser.  Yes  No

A temperature monitoring device with a continuous recorder.

NR 664.1033(6)(b)6.  
 NR 665.1033(6)(b)6.

3. If performance tests were conducted, do they comply with all of the following?

- Total organic compound concentrations and mass flow rates entering and exiting the control device are determined according to all of the following:
  - Method 2 in appendix A of 40 CFR part 60 is used to determine the velocity and volumetric flow rate.
  - Method 18 in appendix A of 40 CFR part 60 is used to determine organic content.
  - Each performance test consists of 3 separate runs at least one hour each, under the highest load or capacity expected.
  - Total organic mass flow rate and annual total organic emission rate are calculated correctly.
  - The total organic emissions from all affected process vents are calculated by adding the hourly total organic mass emission rates and by adding the annual total organic mass emission rates.  Yes  No  N/A
  - All process information, including representative conditions, used during the performance tests are recorded.
  - Information that the following performance testing facilities were made available:
    - Adequate sampling ports for the required test methods.
    - A safe sampling platform.
    - Safe access to the sampling platform.
    - Utilities for sampling and testing equipment.
  - The time-weighted average of the results from 3 runs is used to determine compliance.

- 4. If engineering calculations are used for a condenser, does the design analysis address both of the following?
  - Considers the vent stream composition, constituent concentrations, flow rate, relative humidity and temperature.  Yes  No  N/A
  - Establishes the design outlet organic compound concentration level, design average temperature of the condenser exhaust vent stream and design average temperatures of the coolant fluid at the condenser inlet and outlet.

**Section L: Standards for Closed Vent Systems and Control Devices - Boiler or Process Heater**

1. Is the control device a boiler or process heater? If NO, go to Section M.  Yes  No

- 2. Is the boiler or process heater designed and operated to result in any of the following?
  - Reduce the organic emissions by 95 weight percent or greater.
  - Achieve a total organic compound concentration of 20 ppmv, expressed as the sum of actual compounds on a dry basis corrected to 3% oxygen.  Yes  No
  - Provide a minimum residence time of 0.50 seconds at a minimum temperature of 760°C.

- 3. Is a temperature monitoring device with a continuous recorder maintained and operated to continuously monitor a boiler or process heater with a design heat input capacity less than 44 megawatts?  Yes  No  N/A

- 4. Is a monitoring device with a continuous recorder that measures a parameter indicating good combustion operating practices maintained and operated to monitor the operation of a boiler or process heater with a design heat input capacity of 44 megawatts or more?  Yes  No  N/A

NR 664.1033(6)(b)5.  
 NR 665.1033(6)(b)5.

NR 662.034(1)(a)2.  
NR 664.1087(3)(e)1.  
NR 665.1088(3)(e)1.

5. Does the boiler or process heater meet any of the following? If YES, go to Section N.

- The design heat input capacity is 44 megawatts or greater.
- The vent stream is introduced into the boiler or process heater with the primary fuel.
- The boiler or industrial furnace has been issued an interim or operating license to burn hazardous waste and is designed and operated according to subch. H of ch. NR 666.

Yes    No

NR 662.034(1)(a)2.  
NR 664.1087(3)(e)3.  
NR 665.1088(3)(e)3.

NR 664.1034(3)  
NR 665.1034(3)

6. If performance tests were conducted, do they comply with all of the following?

- Total organic compound concentrations and mass flow rates entering and exiting the control device are determined according to all of the following:
  - \_\_\_ Method 2 in appendix A of 40 CFR part 60 is used to determine the velocity and volumetric flow rate.
  - \_\_\_ Method 18 in appendix A of 40 CFR part 60 is used to determine organic content.
  - \_\_\_ Each performance test consists of 3 separate runs at least one hour each, under the highest load or capacity expected.
  - \_\_\_ Total organic mass flow rate and annual total organic emission rate are correctly calculated.
  - \_\_\_ The total organic emissions from all affected process vents are calculated by adding the hourly total organic mass emission rates and by adding the annual total organic mass emission rates.
- All process information, including representative conditions, used during the performance tests are recorded.
- Information that the following performance testing facilities were made available:
  - \_\_\_ Adequate sampling ports for the required test methods.
  - \_\_\_ A safe sampling platform.
  - \_\_\_ Safe access to the sampling platform.
  - \_\_\_ Utilities for sampling and testing equipment.
- The time-weighted average of the results from 3 runs is used to determine compliance.

Yes    No    N/A

NR 662.034(1)(a)2.  
NR 664.1087(3)(e)4.  
NR 665.1088(3)(e)4.

NR 664.1035(2)(d)3.  
NR 665.1035(2)(d)3.

7. If engineering calculations are used for a boiler or process heater, does the design analysis address both of the following?

- Considers the vent stream composition, constituent concentrations and flow rate.
- Establishes the design minimum and average flame zone temperatures, combustion zone residence time and description of method and location where the vent or equipment stream is introduced into the combustion zone.

Yes    No    N/A

**Section M: Standards for Closed Vent Systems and Control Devices – Flares**

1. Is the control device a flare? If NO, go to Section N.  Yes    No

NR 662.034(1)(a)2.  
 NR 664.1087(3)(a)3.  
 NR 665.1088(3)(a)3.  
 NR 664.1033(4)  
 NR 665.1033(4)

2. Is the flare designed and operated according to all of the following?  
 No emissions are visible except for periods not to exceed a total of 5 minutes during any 2 consecutive hours.  
 The flare is present at all times.  
 The flare is steam-assisted, air-assisted or non-assisted.  
 The net heating value of the gas being combusted is either of the following:  
     \_\_\_ If the flare is steam or air-assisted, 300 Btu/scf or more.  Yes     No  
     \_\_\_ If the flare is non-assisted, 200 Btu/scf or more.  
 If the flare is air assisted, the exit velocity is less than  $V_{max}$ .  
 If the flare is steam-assisted or non-assisted, the exit velocity of the flare is one of the following:  
     \_\_\_ Less than 60 ft/sec.  
     \_\_\_ Between 60 ft/sec and 400 ft/sec if the net heating value of the gas is greater than 1000 Btu/scf.  
     \_\_\_ Less than the maximum velocity,  $V_{max}$ , and less than 400 ft/sec.

NR 662.034(1)(a)2.  
 NR 664.1087(3)(e)2.  
 NR 665.1087(3)(e)2.  
 NR 664.1033(5)  
 NR 665.1033(5)

3. Does the flare meet all of the following requirements?  
 Compliance with the visible emissions requirement has been determined using Method 22 in appendix A of 40 CFR part 60.  
 The following have been calculated correctly:  Yes     No  
     \_\_\_ Net heating value of the gas being combusted.  
     \_\_\_ Actual exit velocity.  
     \_\_\_ Maximum allowed velocity or  $V_{mx}$ .

NR 662.034(1)(a)2.  
 NR 664.1087(3)(g)  
 NR 665.1088(3)(g)  
 NR 664.1033(6)(b)3.  
 NR 665.1033(6)(b)3.

4. Is the flare equipped with a heat sensing monitoring device and continuous recorder that meets both of the following?  
 Indicates the continuous ignition of the pilot flame.  Yes     No  
 The device is maintained and operated to continuously monitor the operation of the flare.

NR 662.034(1)(a)2.  
 NR 664.1087(3)(e)4.  
 NR 665.1088(3)(e)4.  
 NR 664.1035(2)(d)3.  
 NR 665.1035(2)(d)3.

5. If engineering calculations are used for a flare, does the design analysis consider the vent stream composition, constituent concentrations, flow rate, and design and operation standards (no visible emissions)?  Yes     No     N/A

**Section N: Standards for Closed Vent Systems and Control Devices - Carbon Adsorption Units**

1. Is the control device a carbon adsorption unit? If NO, go to Section O.  Yes     No

NR 662.034(1)(a)2.  
 NR 664.1087(3)(c)  
 NR 665.1088(3)(c)

2. Is the carbon adsorption system designed and operated to reduce the total organic content of the inlet vapor stream by at least 95% by weight?  Yes     No

NR 662.034(1)(a)2.  
 NR 664.1087(3)(c)1.  
 NR 665.1088(3)(c)1.  
 NR 664.1035(2)(d)3.  
 NR 665.1033(7)

3. If the facility uses a fixed-bed carbon adsorption system that regenerates the carbon bed in the control device, is the carbon replaced with fresh carbon at regular, pre-determined time intervals that are shorter than the carbon service life?  Yes     No     N/A

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**NR 662.034(1)(a)2.**  
**NR 664.1087(3)(c)1.**  
NR 665.1088(3)(c)1.  
  
NR 664.1033(8)  
NR 665.1033(8)

4. If the carbon bed is not regenerated in the control device, is the existing carbon replaced with fresh carbon on a regular basis using either of the following procedures?  
 The concentration level of organic compounds in the exhaust vent stream is monitored and the existing carbon is immediately replaced when carbon breakthrough is indicated.  Yes  No  N/A  
\_\_\_ The monitoring frequency is either daily or at an interval no more than 20% of the time required to consume the total carbon working capacity, whichever is longer.  
 The existing carbon is replaced at a regular pre-determined time interval that is less than the design carbon replacement interval.

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**NR 662.034(1)(a)2.**  
**NR 664.1087(3)(c)2.**  
NR 665.1088(3)(c)2.  
  
NR 664.1033(14)  
NR 665.1033(13)

5. Does the facility document that carbon removed from the carbon adsorption system is managed as a hazardous waste by one of the following methods?  
 Regenerated in a thermal treatment unit licensed or permitted as a miscellaneous unit; or, in compliance with NR 665 subch AA, BB, CC or the Clean Air Act requirements.  Yes  No  N/A  
 Incinerated in a licensed or permitted hazardous waste incinerator.  
 Burned in a licensed or permitted boiler or industrial furnace.

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**NR 662.034(1)(a)2.**  
**NR 664.1087(3)(g)**  
NR 665.1088(3)(g)  
  
NR 664.1033(6)(b)7.  
NR 665.1033(6)(b)7.

6. Is one of the following devices maintained and operated to continuously monitor the operation of a carbon adsorption system that regenerates the carbon bed in the control device?  
 A monitoring device with a continuous recorder to measure the organic compound concentration level in the exhaust vent stream from the carbon bed.  Yes  No  N/A  
 A monitoring device equipped with a continuous recorder to measure a parameter indicating the carbon bed is regenerating on a regular predetermined time cycle.

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7. Do performance tests comply with all of the following?  
 Total organic compound concentrations and mass flow rates entering and exiting the control device are determined according to all of the following:  
\_\_\_ Method 2 in appendix A of 40 CFR part 60 is used to determine the velocity and volumetric flow rate.  
\_\_\_ Method 18 in appendix A of 40 CFR part 60 is used to determine organic content.  
\_\_\_ Each performance test consists of 3 separate runs at least one hour each, under the highest load or capacity expected.  
\_\_\_ Total organic mass flow rate and annual total organic emission rate are correctly calculated.  
\_\_\_ The total organic emissions from all affected process vents are calculated by adding the hourly total organic mass emission rates and by adding the annual total organic mass emission rates.  Yes  No  N/A  
 All process information, including representative conditions, used during the performance tests are recorded.  
 Information that the following performance testing facilities were made available:  
\_\_\_ Adequate sampling ports for the required test methods.  
\_\_\_ A safe sampling platform.  
\_\_\_ Safe access to the sampling platform.  
\_\_\_ Utilities for sampling and testing equipment.  
 The time-weighted average of the results from 3 runs is used to determine compliance.

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NR 662.034(1)(a)2.  
 NR 664.1087(3)(e)4.  
 NR 665.1088(3)(e)4.  
 NR 664.1035(2)(d)3.  
 NR 665.1035(2)(d)3.

8. If engineering calculations are used for a carbon adsorption system that regenerates the carbon bed on-site in the control device, does the design analysis address both of the following?  
 Considers the vent stream composition, constituent concentrations, flow rate, relative humidity and temperature.  
 Establishes the design exhaust vent stream organic compound concentration level, number and capacity of carbon beds, type and working capacity of activated carbon used for carbon beds, design total steam flow over the period of each complete carbon bed regeneration cycle, duration of the carbon bed steaming and cooling or drying cycles, design carbon bed temperature after regeneration, design carbon bed regeneration time and design service life of carbon.

Yes  No  N/A

NR 662.034(1)(a)2.  
 NR 664.1087(3)(e)4.  
 NR 665.1088(3)(e)4.  
 NR 664.1035(2)(d)3.  
 NR 665.1035(2)(d)3.

9. If engineering calculations are used for a carbon adsorption system that does not regenerate the carbon bed on-site in the control device, does the design analysis address both of the following?  
 Considers the vent stream composition, constituent concentrations, flow rate, relative humidity and temperature.  
 Establishes the design outlet organic concentration level, capacity of carbon bed, type and working capacity of activated carbon used for carbon bed and design carbon replacement interval based on the total carbon working capacity of the control device and source operating schedule.

Yes  No  N/A

**Section O: General Standards for All Closed-Vent Systems and Control Devices**

NR 662.034(1)(a)2.  
 NR 664.1087(3)(d)  
 NR 665.1088(3)(d)

1. If the control device is other than a thermal vapor incinerator, flare, boiler, process heater, condenser or carbon adsorption system, are both of the following met?  
 The control device is designed and operated to reduce the total organic content of the inlet vapor stream by at least 95% by weight.  
 The control device is operated and maintained according to the identified process parameters for the unit.

Yes  No  N/A

NR 662.034(1)(a)2.  
 NR 664.1087(3)(b)5.  
 NR 665.1088(3)(b)5.

2. Are malfunctions of the control device system corrected as soon as practicable after their occurrence to minimize excess emissions of air pollutants?

Yes  No

NR 662.034(1)(a)2.  
 NR 664.1087(3)(b)1.  
 NR 665.1088(3)(b)1.

3. Are periods of planned routine maintenance that result in the control device not meeting the design and operating standards limited to 240 hours or less per year?

Yes  No

NR 662.034(1)(a)2.  
 NR 664.1087(3)(b)4.  
 NR 665.1088(3)(b)4.

4. Does the facility demonstrate that planned routine maintenance is 240 hours or less per year by recording, on a semi-annual basis, all of the following information?  
 A description of the planned routine maintenance that is anticipated to be performed for the control device during the next 6 months, including the type of maintenance necessary and the length of maintenance periods.  
 A description of the planned routine maintenance that was performed during the previous 6 months, including the type of maintenance performed and the total number of hours during the 6 months that the control device did not meet the operating standard.

Yes  No

NR 662.034(1)(a)2.  
 NR 664.1089(5)(f)  
 NR 665.1090(5)(f)

5. For unexpected control device system malfunctions, is the following information recorded when the control device does not meet design specifications?  
 The occurrence and duration of each malfunction.  
 The duration of each period during a malfunction when gases, vapors or fumes are vented through the control device when it is not functioning.  
 Actions taken during periods of malfunction to restore a malfunctioning control device to its normal manner of operation.

Yes  No  N/A

<p><b>NR 662.034(1)(a)2.</b>  <b>NR 664.1087(3)(b)6.</b>                  NR 665.1088(3)(b)6.</p>	<p>6. Is the closed-vent system operated such that gases, vapors, or fumes are not actively vented to the control device during periods of planned maintenance or malfunctions, except when venting is necessary to avoid an unsafe condition or implement maintenance?</p>	<p><input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A</p>
<p><b>NR 662.034(1)(a)2.</b>  <b>NR 664.1087(2)(b)</b>                  NR 665.1088(2)(b)</p> <p>NR 664.1033(11)                  NR 665.1033(10)</p>	<p>7. Does the closed vent system meet either of the following design requirements?  <input type="checkbox"/> Operated with no detectable emissions as indicated by an instrument reading of less than 500 ppmv above background and by visual inspection.  <input type="checkbox"/> Operated at a negative pressure (below atmospheric pressure)                  ___ A pressure gauge or other pressure measuring device is readily accessible to verify operation at negative pressure.</p>	<p><input type="checkbox"/> Yes <input type="checkbox"/> No</p>
<p><b>NR 662.034(1)(a)2.</b>  <b>NR 664.1087(2)(b)</b>                  NR 665.1088(2)(b)</p> <p>NR 664.1033(11)(a)                  NR 665.1033(10)(a)</p> <p>NR 664.1034(2)                  NR 665.1034(2)</p>	<p>8. Has testing been conducted to determine if the control device is operating with no detectable emissions (&lt; 500 ppm) according to all of the following?  <input type="checkbox"/> Each of the following has been conducted according to Method 21 in appendix A of 40 CFR part 60.                  ___ Monitoring.                  ___ Performance criteria of the detection instrument.                  ___ Daily calibration procedures of the detection instrument.                  ___ Determination of background levels.                  ___ Determination of potential leak interfaces.  <input type="checkbox"/> Calibration gases consist of zero air with less than 10 ppm hydrocarbons and a mixture of less than 10,000 ppm methane or n-hexane in air.  <input type="checkbox"/> The arithmetic difference between the maximum instrument reading and background level is compared to 500 ppm to determine compliance.</p>	<p><input type="checkbox"/> Yes <input type="checkbox"/> No</p>
<p><b>NR 662.034(1)(a)2.</b>  <b>NR 664.1087(2)(d)</b>                  NR 665.1088(2)(d)</p> <p>NR 664.1033(12)(a)                  NR 665.1033(11)(a)</p>	<p>9. If the closed-vent system is designed to operate with no detectable emissions (&lt;500 ppmv), is proper operation ensured by all of the following?  <input type="checkbox"/> Initial leak detection monitoring was conducted on or before the date the system was subject to subch. CC to demonstrate the unit operates with no detectable emissions.  <input type="checkbox"/> At least annually, visually inspect closed-vent system joints, seams or other connections that are permanently or semi-permanently sealed for defects that could result in air pollutant emissions.  <input type="checkbox"/> Monitor components or connections after repair or replacement to demonstrate they are operating without detectable emissions.  <input type="checkbox"/> Monitor other components or connections annually.                  ___ Components are not monitored because they are designated as unsafe.                  ___ The exposure to an immediate danger has been documented and a written plan for monitoring during safe-to-monitor times is followed.</p>	<p><input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A</p>
<p><b>NR 662.034(1)(a)2.</b>  <b>NR 664.1087(2)(d)</b>                  NR 665.1088(2)(d)</p> <p>NR 664.1033(12)(b)                  NR 665.1033(11)(b)</p>	<p>10. If the closed-vent system is designed to operate at negative pressure, was it visually inspected for defects (i.e., holes in piping or loose connections) that could result in air pollutant emissions by the date the system was subject to subch. CC and annually thereafter?</p>	<p><input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A</p>
<p><b>NR 662.034(1)(a)2.</b>  <b>NR 664.1087(3)(g)</b>                  NR 665.1088(3)(g)</p>	<p>11. Are the devices used for continuous monitoring inspected at least once each monitoring day to check on the control device operation?</p>	<p><input type="checkbox"/> Yes <input type="checkbox"/> No</p>
<p><b>NR 662.034(1)(a)2.</b>  <b>NR 664.1087(2)(c)</b>                  NR 665.1088(2)(c)</p>	<p>12. If the closed-vent system includes bypass devices that could be used to divert the gas or vapor stream to the atmosphere before entering the control device, has each bypass device been equipped with either of the following?  <input type="checkbox"/> A flow indicator installed at the inlet to the bypass line at a point upstream of the control device inlet.  <input type="checkbox"/> A seal or locking device placed on the mechanism (lever or handle) controlling the bypass device position when the bypass device is in the closed position such that the bypass device cannot be opened without breaking the seal or removing the lock.</p>	<p><input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A</p>

**NR 662.034(1)(a)2.** 13. Are defects corrected according to all of the following schedules?  
**NR 664.1087(2)(d)**  The first attempt at repair is made within 5 calendar days and is corrected as  
 NR 665.1088(2)(d) soon as possible, but no later than 15 calendar days after the emissions are  
 detected.  
 NR 664.1033(12)(c)  Complete repair of the equipment is delayed to the end of the next process  Yes  No  N/A  
 NR 665.1033(11)(c) unit shutdown due to either of the following:  
 \_\_\_ Repair is technically infeasible without a process unit shutdown.  
 \_\_\_ Emissions from immediate repair would be greater than those resulting  
 from delay of repair.

**Section P: Standards for Closed Vent Systems and Control Devices - Recordkeeping Requirements**

**NR 662.034(1)(a)2.** 1. When a leak is detected, is all of the following information recorded?  
**NR 664.1087(2)(d)**  The instrument ID number, the closed-vent system component ID number  
 NR 665.1088(2)(d) and the operator name, initials or ID number.  
 NR 664.1033(12)(c)4.  The date the leak was detected and the date of the first attempt to repair.  Yes  No  N/A  
 NR 665.1033(11)(c)4.  The date the leak was successfully repaired.  
 The maximum instrument reading after the leak is successfully repaired or  
 NR 664.1035(3)(j) determined to be nonrepairable.  
 NR 665.1035(3)(j)  A notation of "repair delayed" and the reason for delay if the leak is not  
 repaired within 15 days.

**NR 662.034(1)(a)2.** 2. Are records of monitoring, operating and inspection information kept for 3  
**NR 664.1035(4)** years from the date of each occurrence?  Yes  No  
 NR 665.1035(4)

**NR 662.034(1)(a)2.** 3. Does the facility maintain a certification signed and dated by the  
**NR 664.1089(5)(a)** owner/operator stating that the control device is designed to operate at the  
 NR 665.1090(5)(a) performance level documented by a design analysis or by performance tests  
 when the container or tank is operating at capacity?  Yes  No

**NR 662.034(1)(a)2.** 4. Does the operating record include all of the following for flow indicators and  
**NR 664.1089(5)(d)** continuous monitoring devices?  
 NR 665.1090(5)(d)  Identification of operating parameters.  Yes  No  
 NR 664.1035(3)(b)  Description of monitoring devices.  
 NR 665.1035(3)(b)  Diagram of monitoring sensor locations.

5. If test data is used to determine the organic removal efficiency or total organic  
 compound concentration achieved by the control device, does the facility have a  
 performance test plan that includes all of the following?  
 A description of how it is determined that the planned test is conducted when  
 the hazardous waste management unit is operating at the highest load or capacity  
 level reasonably expected to occur, including all of the following information:  
**NR 662.034(1)(a)2.** \_\_\_ Estimated or design flow rate and organic content of each vent stream.  
**NR 664.1089(5)(c)** \_\_\_ Definition of the acceptable operating ranges of key processes and control  
 NR 665.1090(5)(c) device parameters.  
 Detailed engineering description of the closed-vent system and control  
 NR 664.1035(2)(c) device, including all of the following:  Yes  No  N/A  
 NR 665.1035(2)(c) \_\_\_ Manufacture's name.  
 \_\_\_ Model number.  
 \_\_\_ Type, dimensions and equipment capacity.  
 \_\_\_ Construction materials.  
 Detailed description of sampling and monitoring procedures, including all of  
 the following:  
 \_\_\_ Equipment to be used.  
 \_\_\_ Sampling and monitoring locations in the system.  
 \_\_\_ Frequency of sampling and monitoring.  
 \_\_\_ Planned analytical procedures.

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<p><b>NR 662.034(1)(a)2.</b> <b>NR 664.1089(5)(b)</b> NR 665.1090(5)(b)</p> <p>NR 664.1035(2)(d) NR 665.1035(2)(d)</p>	<p>6. If a design analysis is used, do records include all of the following design documentation for the closed-vent and control devices?</p> <ul style="list-style-type: none"><li><input type="checkbox"/> A list of all information references and sources used in preparing the documentation.</li><li><input type="checkbox"/> Records, including the date, for each compliance test showing that the closed vent system operates with no detectable emissions.</li><li><input type="checkbox"/> A statement signed and dated by the owner or operator certifying that the operating parameters used in the design analysis represent the conditions that exist when the unit is operating at the highest load reasonably expected to occur.</li><li><input type="checkbox"/> A statement certifying that the control device is designed to operate at 95% efficiency or more or the total organic emissions are reduced to below 3 lb/hr and 3.1 tons/yr.<ul style="list-style-type: none"><li>___ Owner or operator signed and dated the statement; OR,</li><li>___ Manufacturer or vendor certified that the control equipment meets design specifications.</li></ul></li><li><input type="checkbox"/> If performance tests are used to demonstrate compliance, all of the test results.</li><li><input type="checkbox"/> Design analysis, specifications, drawings, schematics, piping and instrument diagrams prepared by the owner or operator or provided by the manufacturer or vendor that describes the control device design information.</li></ul>	<p><input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A</p>
<p><b>NR 662.034(1)(a)2.</b> <b>NR 664.1089(5)(d)</b> NR 665.1090(5)(d)</p> <p>NR 664.1035(3)(a) NR 665.1035(3)(a)</p>	<p>7. Does the operating record include a description and the date of each modification that has been made to the closed-vent system or control device design?</p>	<p><input type="checkbox"/> Yes <input type="checkbox"/> No</p>
<p><b>NR 662.034(1)(a)2.</b> <b>NR 664.1089(1)</b> NR 665.1090(1)</p>	<p>8. Are records maintained according to the following schedules?</p> <ul style="list-style-type: none"><li><input type="checkbox"/> Air emission control equipment design documentation is maintained in the operating record until the air emission control equipment is replaced or otherwise no longer in service.</li><li><input type="checkbox"/> Information regarding the organic peroxide exclusion is maintained for as long as the container or tank is not using air emission controls.</li><li><input type="checkbox"/> Information regarding certification and the requirements that apply if the air emission controls are operating according to the state or federal Clean Air Act requirements are maintained for as long as the container or tank is not using air emission controls.</li></ul>	<p><input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A</p>
<p><b>NR 664.1090(3)</b></p>	<p>9. For facilities with a final operating license only: If a control device operated continuously in noncompliance for 24 hours or longer or a flare operated with visible emissions for 5 minutes or longer, was a semiannual written report submitted to the department which included all of the following?</p> <ul style="list-style-type: none"><li><input type="checkbox"/> The EPA ID#, facility name and address for the facility.</li><li><input type="checkbox"/> A description of each occurrence of noncompliance during the previous 6-month period.</li><li><input type="checkbox"/> An explanation of why the control device could not be returned to compliance within 24 hours.</li><li><input type="checkbox"/> Actions taken to correct the noncompliance.</li><li><input type="checkbox"/> Signature and date by an authorized representative.</li></ul>	<p><input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A</p>

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DNR Inspector Signature	Date
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