

US EPA ARCHIVE DOCUMENT

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## Instructions for Filling Out the Hazardous Waste Permit Information Form

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### GENERAL INSTRUCTIONS

Please type or print, leaving only one blank box between words. Where shown, boxes are spaced at 1/4" intervals, which accommodate elite type (*12 characters per inch*). When typing, hit the space bar twice between characters. If you print, place each character in a box.

Abbreviate if necessary to stay within the number of boxes allowed for each item. Some items in the form require narrative explanation. If more space is necessary to answer a question, use the space provided in Item 14 and reference the Item number to which the additional information applies or attach a separate sheet entitled "Additional Information."

Unless otherwise specified in the instructions to the form, each item must be answered. To indicate that each item has been considered, enter "NA" for not applicable if a particular item does not fit the circumstances or characteristics of your facility or activity.

For Revised Part A Permit Application, circle the item numbers with new information or changes.

### LINE-BY-LINE INSTRUCTIONS

#### Item 1 - Facility Permit Contact:

Give the name and work telephone number of a person who is thoroughly familiar with the activities at the facility that require a hazardous waste permit and with the facts reported in the Hazardous Waste Permit Information Form. This person must be available to be contacted by offices reviewing the permit application if necessary. If the Facility Permit Contact information is the same as the Site Contact Person identified in Item 8 of the RCRA Subtitle C Site Identification Form (Site ID Form), you may print "Same as Site Contact" in the box in Item 1.

#### Item 2 - Facility Permit Contact Address:

Enter the mailing address for the facility permit contact. If the mailing address is the same as the Site Mailing Address (Item 7) on the Site ID Form, you may print "Same as Site Contact" in the box in Item 2.

## RCRA Hazardous Waste Part A Permit Application

### Item 3 - Legal Owner Mailing Address and Telephone Number:

Enter the mailing address and telephone number for the legal owner of the facility identified in Item 9.A of the Site ID Form.

### Item 4 - Operator Mailing Address and Telephone Number:

Enter the mailing address and telephone number of the facility operator identified in Item 9.B of the Site ID Form.

### Item 5 - Facility Existence Date:

Enter the appropriate date that applies to your facility from among the following:

- A. The date that hazardous waste operations at the facility commenced;
- B. The date construction on the facility commenced; or
- C. The date operation is expected to begin.

### Item 6 - Other Environmental Permits:

- A. **Permit Type:** Using the codes listed below, enter a letter on the form for all other environmental permits the facility has received, or for which the facility has filed an application, even if the permit has not yet been received.

N = NPDES (National Pollutant Discharge Elimination System) Clean Water Act  
P = PSD (Prevention of Significant Deterioration) Clean Air Act  
R = RCRA (Resource Conservation and Recovery Act)  
U = UIC (Underground Injection Control) Safe Drinking Water Act  
F = EPA 404 (Dredge or Fill Permits under Section 404 of the Clean Water Act)  
E = Other relevant environmental permits. List any other relevant Federal (e.g., permits under the Ocean Dumping Act), State (e.g., State permits for new air emission sources in nonattainment areas under Part D of the Clean Air Act or State permits under Section 404 of the Clean Water Act), or local environmental permits or applications.

- B. **Permit Number:** Give the number of each presently effective permit issued to the facility for each program, or if you have previously filed an application, but have not yet received a permit, give the number of the application. You may list additional permit numbers on a separate sheet of paper if you have more than one currently effective permit for your facility under a particular permit program.
- C. **Description:** Use the space provided for any additional information identifying or describing the permits.

**Item 7 - Nature of Business:**

Briefly describe the nature of your business (e.g., products produced or services provided). If more space is needed, please attach additional sheets.

**Item 8 - Process Codes and Design Capacities:**

The information in Item 8 describes all the processes that will be used to treat, store, or dispose of hazardous waste at the facility. The design capacity of each process must be provided as part of the description. The design capacity of injection wells and landfills at existing facilities should be measured as the remaining, unused capacity. Tank storage should refer to each tank, not each tank farm. Please indicate the location of each process listed in Item 8 on either the map provided for Item 11 or the photographs provided for Item 13. Use the line number from Item 8 to indicate where the process(es) are located. See the form for detailed instructions on Item 8.

*Note: Submission of a Revised Part A Permit Application is required before processes for treating, storing or disposing of hazardous wastes are changed; before new processes are added; and/or before the design capacities of these processes are increased.*

**Item 9 - Other Processes:**

Use this space to describe other processes that did not have a specific process code listed in Item 8.A of the form. Follow the instructions for Item 8.A on the form for other process codes (i.e., D99, S99, T04, and X99 process codes).

**Item 10 - Description of Hazardous Wastes:**

The information in Item 10 describes all the hazardous wastes that will be treated, stored, or disposed at the facility. In addition, the processes that will be used to treat, store, or dispose of each hazardous waste and the estimated annual quantity of each hazardous waste must be provided. See the form for detailed instructions on Item 10.

*Note: Submission of a Revised Part A Permit Application is required before a facility begins treating, storing, or disposing of new hazardous wastes not previously identified in the facility's Part A Permit Application. Changes in the quantity of hazardous waste previously specified in the Part A Permit Application can be made without submitting a Revised Part A Permit Application, provided the quantity does not exceed the process design capacities specified in the First Part A submission.*

## RCRA Hazardous Waste Part A Permit Application

### Item 11 - Map:

Provide a topographic map or maps of the area extending to at least one mile beyond the property boundaries of the facility. The map must clearly show the following:

- The legal boundaries of the facility;
- The location and serial number of each of your existing and proposed intake and discharge structures;
- All hazardous waste management facilities;
- Location of all processes listed in Items 8 and 9 identified by process code;
- Each well where you inject fluids underground; and
- All springs and surface water bodies in the area, plus all drinking water wells within 1/4 mile of the facility which are identified in the public record or otherwise known to you.

If an intake or discharge structure, hazardous waste disposal site, or injection well associated with the facility is located more than one mile from the plant, include it on the map, if possible. If not, attach additional sheets describing the location of the structure, disposal site, or well, and identify the U.S. Geological Survey (or other) maps corresponding to the location.

On each map, include the map scale, a meridian arrow showing north, and latitude and longitude at the nearest whole second. On all maps of rivers, show the direction of the current, and in tidal waters, show the directions of the ebb and flow tides. Use a 7-1/2 minute series map published by the U.S. Geological Survey. If a 7-1/2 minute series map has not been published for your facility site, then you may use a 15-minute series map from the U.S. Geological Survey. If neither a 7-1/2 nor 15-minute series map has been published for your facility site, use a plant map or other appropriate map, and include all the requested information; in this case, briefly describe land uses in the map area (e.g., residential, commercial).

For information about obtaining maps, contact the U.S. Geological Survey at (888) 275-8747 or see the USGS web site at <http://mapping.usgs.gov>

You may trace your map from a geological survey chart, or other map meeting the above specifications. If you do, your map should bear a note showing the number or title of the map or chart from which it was traced. Include the names of nearby towns, water bodies, and other prominent points.

**Item 12 - Facility Drawing:**

All existing facilities must include a drawing showing the general layout of the facility. This drawing should be approximately to scale and fit on an 8½" x 11" sheet of paper. The drawing should show the following:

1. The property boundaries of the facility;
2. The areas occupied by all storage, treatment, or disposal operations that will be used during interim status;
3. The name of each operation (e.g., multiple hearth incinerator, drum storage area, etc.);
4. Areas of past storage, treatment, or disposal operations;
5. Areas of future storage, treatment, or disposal operations; and
6. The approximate dimensions of the property boundaries and all storage, treatment, and disposal areas. (*Where applicable, use the process codes listed in Items 8 and 9 to indicate the location of all storage, treatment, and disposal areas.*)

*Note: New facilities do not have to complete Item 12.*

**Item 13 - Photographs:**

All existing facilities must include photographs that clearly delineate all existing structures; all existing areas for storing, treating, or disposing of hazardous waste; and all known sites of future storage, treatment, or disposal operations. Photographs may be color or black and white, ground-level or aerial. Indicate the date the photograph was taken on the back of each photograph. Use the process codes listed in Items 8 and 9 to indicate the location of all storage, treatment, and disposal areas.

*Note: New facilities do not have to complete Item 13.*

**Item 14 - Comments:**

Use this space for any additional comments and attach additional sheets if necessary.

Mail to: Department of Environmental Quality Land Protection Division Post Office Box 1677 Oklahoma City, Oklahoma 73101-1677
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United States Environmental Protection Agency  
**HAZARDOUS WASTE PERMIT INFORMATION FORM**

<b>1. Facility Permit Contact (See instructions on page 35)</b>	First Name:	MI:	Last Name:
	Phone Number:		Phone Number Extension:
<b>2. Facility Permit Contact Mailing Address (See instructions on page 35)</b>	Street or P.O. Box:		
	City, Town, or Village:		
	State:		
	Country:	Zip Code:	
<b>3. Legal Owner Mailing Address and Telephone Number (See instructions on page 36)</b>	Street or P.O. Box:		
	City, Town, or Village:		
	State:		
	Country:	Zip Code:	Phone Number
<b>4. Operator Mailing Address and Telephone Number (See instructions on page 36)</b>	Street or P.O. Box:		
	City, Town, or Village:		
	State:		
	Country:	Zip Code:	Phone Number
<b>5. Facility Existence Date (See instructions on page 36)</b>	Facility Existence Date (mm/dd/yyyy):		
<b>6. Other Environmental Permits (See instructions on page 36)</b>			
<b>A. Permit Type (Enter code)</b>	<b>B. Permit Number</b>	<b>C. Description</b>	
<b>7. Nature of Business (Provide a brief description; see instructions on page 37)</b>			

8. Process Codes and Design Capacities (See instructions on page 37)

**PROCESS CODE** - Enter the code from the list of process codes below that best describes each process to be used at the facility. Thirteen lines are provided for entering codes. If more lines are needed, attach a separate sheet of paper with the additional information. For "other" processes (i.e., D99, S99, T04 and X99), describe the process (including its design capacity) in the space provided in Item 9.

**B. PROCESS DESIGN CAPACITY**- For each code entered in column A, enter the capacity of the process.

1. **AMOUNT** - Enter the amount. In a case where design capacity is not applicable (such as in a closure/post-closure or enforcement action) enter the total amount of waste for that process.

2. **UNIT OF MEASURE** - For each amount entered in column B(1), enter the code in column B(2) from the list of unit of measure codes below that describes the unit of measure used. Select only from the units of measure in this list.

**C. PROCESS TOTAL NUMBER OF UNITS** - Enter the total number of units for each corresponding process code.

PROCESS CODE	PROCESS	APPROPRIATE UNITS OF MEASURE FOR PROCESS DESIGN CAPACITY	PROCESS CODE	PROCESS	APPROPRIATE UNITS OF MEASURE FOR PROCESS DESIGN CAPACITY
D79	Disposal: Underground Injection Well Disposal	Gallons; Liters; Gallons Per Day; or Liters Per Day	T81	Cement Kiln	Gallons Per Day; Liters Per Day; Pounds Per Hour; Short Tons Per Hour; Kilograms Per Hour; Metric Tons Per Day; Metric Tons Per Hour; Short Tons Per Day; Btu Per Hour; Liters Per Hour; Kilograms Per Hour; or Million Btu Per Hour
D80	Landfill	Acre-feet; Hectare-meter; Acres; Cubic Meters; Hectares; Cubic Yards	T82	Lime Kiln	Gallons Per Day; Liters Per Day; Pounds Per Hour; Short Tons Per Hour; Kilograms Per Hour; Metric Tons Per Day; Metric Tons Per Hour; Short Tons Per Day; Btu Per Hour; Liters Per Hour; Kilograms Per Hour; or Million Btu Per Hour
D81	Land Treatment	Acres or Hectares	T83	Aggregate Kiln	Tons Per Hour; Short Tons Per Day; Btu Per Hour; Liters Per Hour; Kilograms Per Hour; or Million Btu Per Hour
D82	Ocean Disposal	Gallons Per Day or Liters Per Day	T84	Phosphate Kiln	Tons Per Hour; Short Tons Per Day; Btu Per Hour; Liters Per Hour; Kilograms Per Hour; or Million Btu Per Hour
D83	Surface Impoundment Disposal	Gallons; Liters; Cubic Meters; or Cubic Yards	T85	Coke Oven	Gallons Per Day; Liters Per Day; Pounds Per Hour; Short Tons Per Hour; Kilograms Per Hour; Metric Tons Per Day; Metric Tons Per Hour; Short Tons Per Day; Btu Per Hour; Liters Per Hour; Kilograms Per Hour; or Million Btu Per Hour
D99	Other Disposal	Any Unit of Measure Listed Below	T86	Blast Furnace	Gallons Per Day; Liters Per Day; Pounds Per Hour; Short Tons Per Hour; Kilograms Per Hour; Metric Tons Per Day; Metric Tons Per Hour; Short Tons Per Day; Btu Per Hour; Liters Per Hour; Kilograms Per Hour; or Million Btu Per Hour
S01	Storage: Container	Gallons; Liters; Cubic Meters; or Cubic Yards	T87	Smelting, Melting, or Refining Furnace	Gallons Per Day; Liters Per Day; Pounds Per Hour; Short Tons Per Hour; Kilograms Per Hour; Metric Tons Per Day; Metric Tons Per Hour; Short Tons Per Day; Btu Per Hour; Liters Per Hour; Kilograms Per Hour; or Million Btu Per Hour
S02	Tank Storage	Gallons; Liters; Cubic Meters; or Cubic Yards	T88	Titanium Dioxide Chloride Oxidation Reactor	Tons Per Hour; Short Tons Per Day; Btu Per Hour; Gallons Per Hour; Liters Per Hour; or Million Btu Per Hour
S03	Waste Pile	Cubic Yards or Cubic Meters	T89	Methane Reforming Furnace	Gallons Per Day; Liters Per Day; Pounds Per Hour; Short Tons Per Hour; Kilograms Per Hour; Metric Tons Per Day; Metric Tons Per Hour; Short Tons Per Day; Btu Per Hour; Liters Per Hour; Kilograms Per Hour; or Million Btu Per Hour
S04	Surface Impoundment Storage	Gallons; Liters; Cubic Meters; or Cubic Yards	T90	Pulping Liquor Recovery Furnace	Million Btu Per Hour
S05	Drip Pad	Gallons; Liters; Acres; Cubic Meters; Hectares; or Cubic Yards	T91	Combustion Device Used In The Recovery Of Sulfur Values From Spent Sulfuric Acid Halogen Acid Furnaces Other Industrial Furnaces Listed In 40 CFR §260.10	Gallons Per Day; Liters Per Day; Pounds Per Hour; Short Tons Per Hour; Kilograms Per Hour; Metric Tons Per Day; Metric Tons Per Hour; Short Tons Per Day; Btu Per Hour; Liters Per Hour; Kilograms Per Hour; or Million Btu Per Hour
S99	Containment Building Storage Other Storage	Cubic Yards or Cubic Meters Any Unit of Measure Listed Below	T92		
T01	Treatment: Tank Treatment	Gallons Per Day; Liters Per Day; Short Tons Per Hour; Gallons Per Hour; Liters Per Hour; Pounds Per Hour; Short Tons Per Day; Kilograms Per Hour; Metric Tons Per Day; or Metric Tons Per Hour	T93		
T02	Surface Impoundment Treatment	Gallons Per Day; Liters Per Day; Short Tons Per Hour; Gallons Per Hour; Liters Per Hour; Pounds Per Hour; Short Tons Per Day; Kilograms Per Hour; Metric Tons Per Day; or Metric Tons Per Hour	T94	Containment Building - Treatment	Cubic Yards; Cubic Meters; Short Tons Per Hour; Gallons Per Hour; Liters Per Hour; Btu Per Hour; Pounds Per Hour; Short Ton Per Day; Kilograms Per Hour; Metric Tons Per Day; Gallons Per Day; Liters Per Day; Metric Tons Per Hour; or Million Btu Per Hour
T03	Incinerator	Short Tons Per Hour; Metric Tons Per Hour; Gallons Per Hour; Liters Per Hour; Btu Per Hour; Pounds Per Hour; Short Tons Per Day; Kilograms Per Hour; Gallons Per Day; Liters Per Day; Metric Tons Per Hour; or Million Btu Per Hour	<u>Miscellaneous (Subpart X)</u>		
T04	Other Treatment	Gallons Per Day; Liters Per Day; Pounds Per Hour; Short Tons Per Hour; Kilograms Per Hour; Metric Tons Per Day; Metric Tons Per Hour; Short Tons Per Day; Btu Per Hour; Gallons Per Day; Liters Per Hour; or Million Btu Per Hour	X01	Open Burning/Open Detonation	Any Unit of Measure Listed Below
T80	Boiler	Gallons; Liters; Gallons Per Hour; Liters Per Hour; Btu Per Hour; or Million Btu Per Hour	X02	Mechanical Processing	Short Tons Per Hour; Metric Tons Per Hour; Short Tons Per Day; Metric Tons Per Day; Pounds Per Hour; Kilograms Per Hour; Gallons Per Hour; Liters Per Hour; or Gallons Per Day
			X03	Thermal Unit	Gallons Per Day; Liters Per Day; Pounds Per Hour; Short Tons Per Hour; Kilograms Per Hour; Metric Tons Per Day; Metric Tons Per Hour; Short Tons Per Day; Btu Per Hour; or Million Btu Per Hour
			X04	Geologic Repository	Cubic Yards; Cubic Meters; Acre-feet; Hectare-meter; Gallons; or Liters
			X99	Other Subpart X	Any Unit of Measure Listed Below

UNIT OF MEASURE	UNIT OF MEASURE CODE	UNIT OF MEASURE	UNIT OF MEASURE CODE	UNIT OF MEASURE	UNIT OF MEASURE CODE
Gallons.....	G	Short Tons Per Hour.....	D	Cubic Yards.....	Y
Gallons Per Hour.....	E	Metric Tons Per Hour.....	W	Cubic Meters.....	C
Gallons Per Day.....	U	Short Tons Per Day.....	N	Acres.....	B
Liters.....	L	Metric Tons Per Day.....	S	Acre-feet.....	A
Liters Per Hour.....	H	Pounds Per Hour.....	J	Hectares.....	Q
Liters Per Day.....	V	Kilograms Per Hour.....	R	Hectare-meter.....	F
		Million Btu Per Hour.....	X	Btu Per Hour.....	I

8. Process Codes and Design Capacities (Continued)

EXAMPLE FOR COMPLETING Item 8 (shown in line number X-1 below): A facility has a storage tank, which can hold 533.788 gallons.

Line Number	A. Process Code (From list above)	B. PROCESS DESIGN CAPACITY		C. Process Total Number of Units	For Official Use Only
		(1) Amount (Specify)	(2) Unit of Measure (Enter code)		
X 1	S 0 2	5 3 3 . 7 8 8	G	0 0 1	
1					
2					
3					
4					
5					
6					
7					
8					
9					
1 0					
1 1					
1 2					
1 3					

NOTE: If you need to list more than 13 process codes, attach an additional sheet(s) with the information in the same format as above. Number the lines sequentially, taking into account any lines that will be used for "other" processes (i.e., D99, S99, T04 and X99) in Item 9.

Other Processes (See instructions on page 37 and follow instructions from Item 8 for D99, S99, T04 and X99 process codes)

Line Number (Enter #s in sequence with Item 8)	A. Process Code (From list above)	B. PROCESS DESIGN CAPACITY		C. Process Total Number of Units	D. Description of Process
		(1) Amount (Specify)	(2) Unit of Measure (Enter code)		
X 1	T 0 4				In-situ Vitrification
1					
2					
3					
4					

10. Description of Hazardous Wastes (See instructions on page 37)

- A. EPA HAZARDOUS WASTE NUMBER - Enter the four-digit number from 40 CFR, Part 261 Subpart D of each listed hazardous waste you will handle. For hazardous wastes which are not listed in 40 CFR, Part 261 Subpart D, enter the four-digit number(s) from 40 CFR Part 261, Subpart C that describes the characteristics and/or the toxic contaminants of those hazardous wastes.
- B. ESTIMATED ANNUAL QUANTITY - For each listed waste entered in column A, estimate the quantity of that waste that will be handled on an annual basis. For each characteristic or toxic contaminant entered in column A, estimate the total annual quantity of all the non-listed waste(s) that will be handled which possess that characteristic or contaminant.
- C. UNIT OF MEASURE - For each quantity entered in column B, enter the unit of measure code. Units of measure which must be used and the appropriate codes are:

ENGLISH UNIT OF MEASURE	CODE	METRIC UNIT OF MEASURE	CODE
POUNDS	P	KILOGRAMS	K
TONS	T	METRIC TONS	M

If facility records use any other unit of measure for quantity, the units of measure must be converted into one of the required units of measure, taking into account the appropriate density or specific gravity of the waste.

D. PROCESSES

1. PROCESS CODES:

For listed hazardous waste: For each listed hazardous waste entered in column A select the code(s) from the list of process codes contained in Items 8A and 9A on page 3 to indicate the waste will be stored, treated, and/or disposed at the facility.

For non-listed hazardous waste: For each characteristic or toxic contaminant entered in column A, select the code(s) from the list of process codes contained in Items 8A and 9A on page 3 to indicate all the processes that will be used to store, treat, and/or dispose of all the non-listed hazardous wastes that possess that characteristic or toxic contaminant.

NOTE: THREE SPACES ARE PROVIDED FOR ENTERING PROCESS CODES. IF MORE ARE NEEDED:

1. Enter the first two as described above.
2. Enter "000" in the extreme right box of Item 10.D(1).
3. Use additional sheet, enter line number from previous sheet, and enter additional code(s) in Item 10.E.

2. PROCESS DESCRIPTION: If a code is not listed for a process that will be used, describe the process in Item 10.D(2) or in Item 10.E(2).

NOTE: HAZARDOUS WASTES DESCRIBED BY MORE THAN ONE EPA HAZARDOUS WASTE NUMBER - Hazardous wastes that can be described by more than one EPA Hazardous Waste Number shall be described on the form as follows:

1. Select one of the EPA Hazardous Waste Numbers and enter it in column A. On the same line complete columns B, C and D by estimating the total annual quantity of the waste and describing all the processes to be used to treat, store, and/or dispose of the waste.
2. In column A of the next line enter the other EPA Hazardous Waste Number that can be used to describe the waste. In column D(2) on that line enter "included with above" and make no other entries on that line.
3. Repeat step 2 for each EPA Hazardous Waste Number that can be used to describe the hazardous waste.

EXAMPLE FOR COMPLETING Item 10 (shown in line numbers X-1, X-2, X-3, and X-4 below) - A facility will treat and dispose of an estimated 900 pounds per year of chrome shavings from leather tanning and finishing operations. In addition, the facility will treat and dispose of three non-listed wastes. Two wastes are corrosive only and there will be an estimated 200 pounds per year of each waste. The other waste is corrosive and ignitable and there will be an estimated 100 pounds per year of that waste. Treatment will be in an incinerator and disposal will be in a landfill.

Line Number	A. EPA Hazardous Waste No. (Enter code)				B. Estimated Annual Quantity of Waste	C. Unit of Measure (Enter code)	D. PROCESSES						
	(1) PROCESS CODES (Enter code)						(2) PROCESS DESCRIPTION (If a code is not entered in D(1),						
X 1	K	0	5	4	900	P	T	0	3	D	8	0	
X 2	D	0	0	2	400	P	T	0	3	D	8	0	
X 3	D	0	0	1	100	P	T	0	3	D	8	0	
4	D	0	0	2									Included With Above

10. Description of Hazardous Wastes (Continued; use additional sheets as necessary)

Line Number	A. EPA Hazardous Waste No. (Enter code)	B. Estimated Annual Quantity of Waste	C. Unit of Measure (Enter code)	D. PROCESSES			
				(1) PROCESS CODES (Enter code)			(2) PROCESS DESCRIPTION (If a code is not entered in D(1),
1							
2							
3							
4							
5							
6							
7							
8							
9							
1 0							
1 1							
1 2							
1 3							
1 4							
1 5							
1 6							
1 7							
1 8							
1 9							
2 0							
2 1							
2 2							
2 3							
2 4							
2 5							
2 6							
2 7							
2 8							
2 9							
3 0							
3 1							
3 2							
3 3							



**11. Map (See instructions on page 38)**

*Attach to this application a topographic map, or other equivalent map, of the area extending to at least one mile beyond property boundaries. The map must show the outline of the facility, the location of each of its existing and proposed intake and discharge structures, each of its hazardous waste treatment, storage, or disposal facilities, and each well where it injects fluids underground. Include all springs, rivers and other surface water bodies in this map area. See instructions for precise requirements.*

**12. Facility Drawing (See instructions on page 39)**

*All existing facilities must include a scale drawing of the facility (see instructions for more detail).*

**13. Photographs (See instructions on page 39)**

*All existing facilities must include photographs (aerial or ground-level) that clearly delineate all existing structures; existing storage, treatment and disposal areas; and sites of future storage, treatment or disposal areas (see instructions for more detail).*

**14. Comments (See instructions on page 39)**

Mail to:  
Department of Environmental Quality  
Land Protection Division  
Post Office Box 1677  
Oklahoma City, Oklahoma 73101-1677



## INSTRUCTIONS FOR COMPLETING THE QUARTERLY REPORT FOR GENERATORS OF HAZARDOUS WASTE

Quarterly Reports should reflect the hazardous wastes and universal wastes that were managed during that quarter. This includes: (1) shipped off-site to a permitted Treatment, Storage, Disposal, Recycling Facility (TSDF); (2) treated on-site (e.g., elementary neutralization, distillation); (3) or otherwise managed. If no hazardous waste or universal waste was managed as mentioned above, a quarterly report is still required: include a notation that no activity occurred during that quarter.

Only OKLAHOMA Large Quantity Generators are required to submit this report [OAC 252:205-5-3(a)].

Generation vs Managed: When hazardous waste or universal waste is generated but not managed during that quarter, report the waste in the quarter in which it was managed (not the quarter in which it was generated). Example #1: amount in storage awaiting shipment will be included in the quarter it is shipped. Example #2: waste going to an on-site distillation unit is to be counted in the quarter it is recycled, (see instructions for Transporter & TSD information for reporting on-site recycling). Do **not** exclude waste if it is recycled on-site. It must be counted, since it is hazardous waste upon generation.

In the upper right hand corner, enter your EPA ID Number, Disposal Plan Number, and the Month of the last day of the quarter covered by this report. Indicate the page number and the total pages in the report. Enter you business/plant name, telephone number, plant location and mailing address with city and zip.

At the bottom of each page of the report, enter the amount (in pounds) of waste covered by that page. **Form(s) without an amount IN POUNDS on each page will be rejected as incomplete.**

Page 2 consists of a table explaining what information is required to be included in the report. Please note: columns 1 thru 5 are required. (The most common errors are made in columns 1 and 5).

Column 1: waste stream number from your Disposal Plan (i.e., not UN/NA codes or hazardous waste codes). Waste stream numbers are unique to your facility. Unless a different transporter, TSDF, or handling code applies, **enter one waste stream number per line**. The Quarterly Report should be a summary of the managed waste per quarter. Do NOT report per manifest or shipment. Combine shipments of the same waste stream, same transporter, same TSDF and same handing codes. **Form(s) without Disposal Plan Stream Numbers will be rejected as incomplete.** Please note: Universal wastes should be included on your disposal plan, as well as on your Quarterly Report.

Column 5: handling codes from how the waste is managed (e.g., S01 = storage in containers; R01 = recycling, T03 = treatment by incineration). The abbreviated list below contains the most common handling codes. A lengthy list of Handling Codes are also located in 40 CFR 264 Appendix I, Table 2. (Do not report waste codes nor "M" or "H" codes in column 5). **Form(s) without the designated handling codes will be rejected as incomplete.**

Waste Management Process	Column 1 Waste Stream Number	Column 2 Transporter EPA ID #	Column 3 TSDF EPA ID #	Column 4 Amount Managed in Pounds	Column 5 Handling Codes
<i>Generator:</i> Hazardous wastes shipped off-site for treatment, storage, disposal or recycling to a permitted TSDF facility.	Waste stream number from the <b>Disposal Plan</b> . Right justify the data	EPA ID number of all transporters who handled the waste (in the same order they appear on the manifest).	EPA ID number of the receiving facility.	Amount (in pounds) of waste shipped.	Appropriate handling code(s) from the list below which the waste undergoes at the receiving facility. Codes also located in 40 CFR 264 Apdx, I, Table 2.
<i>Generator:</i> Characteristically hazardous wastes treated at the generator's facility (i.e., on-site) to render completely non-hazardous.	Waste stream number from the <b>Disposal Plan</b> . Right justify the data	<b>Own EPA ID number</b>	Generator's EPA ID # (i.e., own EPA ID #)	Amount (in pounds) of waste prior to treatment.	OS1 = on-site stabilization OS2 = on-site neutralization and stabilization
<i>Generator:</i> Hazardous wastes upon generation, recycled on-site for reuse.	Waste stream number from the <b>Disposal Plan</b> . Right justify the data	<b>Own EPA ID number</b>	Generator's EPA ID # (i.e., own EPA ID #)	Amount (in pounds) of waste prior to recycling.	R01 = Recycling
<i>TSD:</i> Hazardous wastes generated by permitted TSDF's from their own waste activities and managed in on-site units.	Waste stream number from the <b>Disposal Plan</b> . Right justify the data	<b>Own EPA ID number</b>	EPA ID number of Oklahoma TSD facility.	Amount (in pounds) of waste generated.	Appropriate handling code(s) from the list below which the waste undergoes at the receiving facility. Codes also located in 40 CFR 264 Apdx, I, Table 2.
<i>TSD:</i> Hazardous wastes generated by permitted TSDF's from their own activities and shipped off-site to another permitted TSDF.	Waste stream number from the <b>Disposal Plan</b> . Right justify the data	EPA ID number of all transporters who handled the waste (in the same order they appear on the manifest).	EPA ID number of receiving facility.	Amount (in pounds) of waste shipped.	Appropriate handling code(s) from the list, which the waste undergoes at the receiving facility. Also include the codes "PS1" for wastes removed from the permitted storage <u>if</u> the waste was reported on an earlier quarterly report.
<i>TSD:</i> Hazardous wastes shipped off-site from an Oklahoman TSDF which were received by the TSDF from off-site, but which were not treated, disposed, or recycled by the TSDF (trans-shipped wastes).	Waste stream number from the <b>Disposal Plan</b> . Right justify the data	EPA ID number of all transporters who handled the waste (in the same order they appear on the manifest).	EPA ID number of receiving facility.	Amount (in pounds) of waste shipped.	Appropriate handling code(s) from the list, which the waste undergoes at the receiving facility. Also include the code "TS1" to indicate trans-shipped wastes.

Column 5  
handling codes

D79--Disposal via injection well  
D80--Disposal via landfill  
D81--Disposal via land application  
D82--Ocean disposal  
D83--Disposal via surface impoundment  
D99--Disposal via other means

S01--Container storage  
S02--Tank storage  
S03--Storage in waste piles  
S04--Storage in surface impoundments  
S05--Storage on drip pads  
S06--Storage in containment building

R01--Recycling  
S99--Storage by other means  
T01--Treatment in tanks  
T02--Treatment in surface impoundments  
T03--Treatment by incineration  
T04--Treatment by other means



## INSTRUCTIONS FOR COMPLETING THE MONTHLY REPORT FOR HAZARDOUS WASTE TREATMENT, STORAGE, DISPOSAL, OR RECYCLING FACILITIES

This form is to be completed by hazardous waste treatment, storage, disposal, or recycling facilities and should reflect all hazardous wastes, whether generated on-site or off-site, which were managed in permitted or interim status units at the site during the reporting month.

In the upper right hand corner, enter your EPA ID number and the month and year covered by the report.

Enter your business/plant name, telephone number, plant location, and mailing address.

Indicate page number and total number of pages in the report.

At the bottom of each page of the report, enter the amount (in pounds) of waste covered by that page. **FORM(S) WITHOUT AN AMOUNT ON EACH PAGE WILL BE REJECTED AS INCOMPLETE.** This entry helps the Department insure accuracy in the data entry process.

Identify which TSDf management activity below most closely matches your facility to determine what information is required in each column of the form.

**For wastes which were previously reported on a monthly report but for which the actual handling method(s) was(were) different than that reported please amend the appropriate monthly report page and forward to the Department.**

TSDf Management Activity	EPA Waste No. Column 1	Generator EPA ID No. Column 2	Transporter EPA ID No. Column 3	Amount Managed in Pounds Column 4	TSDf Handling Codes and Comments Column 5
Accepts hazardous waste from off-site and manages the waste in permitted or interim status units.	All waste codes applicable to the waste.	EPA ID number of the generator of the waste.	EPA ID number of all transporters who handled the waste in the same order they appear on the manifest.	Approximate amount (in pounds) of waste received.	All applicable handling code(s) from the list below which the waste is expected to undergo at the TSDf. If the waste is recycled, include a process code of R01.  Codes also located in 40 CFR 264 Appendix I, Table 2
Generates hazardous wastes on-site from their own activities and manages the waste in on-site units.	All waste codes applicable to the waste at the time of generation.	EPA ID number of the TSDf.	Leave blank.	Approximate amount (in pounds) of waste treated, stored, disposed, or recycled on-site.	All applicable handling codes from the list below which the waste is expected to undergo at the TSDf. If the waste is recycled, include a process code of R01.

TSDf handling codes

D79--Disposal via injection well  
 D80--Disposal via landfill  
 D81--Disposal via land application  
 D82--Ocean disposal  
 D83--Disposal via surface impoundment  
 D99--Disposal via other means

S01--Container storage  
 S02--Tank storage  
 S03--Storage in waste piles  
 S04--Storage in surface impoundments  
 S05--Storage on drip pads  
 S06--Storage in containment building  
 S99--Storage by other means

R01--Recycling

T01--Treatment in tanks  
 T02--Treatment in surface impoundments  
 T03--Treatment by incineration  
 T04--Treatment by other means

# DEQ PERMIT SATISFACTION SURVEY

Please take a few minutes to let us know how we are doing in providing services to our customers and how we can improve our process. Please complete this questionnaire and return it to:

Department of Environmental Quality  
Customer Services Division  
P. O. Box 1677  
Oklahoma City, OK 73101-1677  
Fax #: (405) 702-9101

For questions followed by the numbers 5 4 3 2 1, please circle the number representing your best answer based on the following scale: 5 = Excellent 4 = Good 3 = Neutral 2 = Fair 1 = Poor

Type of Permit:  Water Quality  Waste Management  Air Quality

1. What is your overall opinion of how the DEQ handled your application for a permit? 5 4 3 2 1
2. Were the DEQ staff you dealt with courteous and professional with respect to the following:
  - a. Assisting you to understand permit application requirements. 5 4 3 2 1
  - b. Resolving any concerns over permit conditions. 5 4 3 2 1
3. Please rate DEQ's process and final product (i.e., a permit) based on the following factors:
  - a. Clarity of application and accompanying instructions or guidance. 5 4 3 2 1
  - b. Clarity of DEQ permit approval process. 5 4 3 2 1
  - c. Timeliness of technical review (preparation time for the draft permit). 5 4 3 2 1
  - d. Fairness of permit conditions. 5 4 3 2 1
  - e. Appropriateness of permit conditions to your facility. 5 4 3 2 1
4. During the permitting process, did you become aware of any conflicting or duplicate requirements?  Yes  No  
Please specify \_\_\_\_\_  
(continue on back of questionnaire if necessary)
5. Please rate your understanding of the permit's requirements, conditions and limitations.  
5 4 3 2 1
6. Do you have any suggestions to improve the Department of Environmental Quality's permitting process?  
\_\_\_\_\_  
\_\_\_\_\_  
(continue on back of questionnaire if necessary)

7. Would you like for someone with the DEQ to contact you regarding this survey and the changes you would like the agency to implement? If yes, please provide your name and telephone number.  Yes  No

Name: \_\_\_\_\_ Telephone Number \_\_\_\_\_

## INFORMATION SHEET

### UNIFORM HAZARDOUS WASTE MANIFEST FOR OKLAHOMA

The Oklahoma Department of Environmental Quality does not require an Oklahoma version of the Uniform Hazardous Waste Manifest. In-state generators may use a general version of the national uniform manifest which may be purchased from commercial printing companies such as the following:

Label Master  
5724 North Pulaski  
Chicago, Illinois 60660  
(312) 478-0900  
\* Order No. 515 Rev. 6

J. J. Keller & Associates, Inc.  
P. O. Box 368  
Neenah, Wisconsin 54956  
(414) 722-2848  
\* Order No. 7 BLS-C

Science Related Materials, Inc.  
P. O. Box 1368  
Janesville, Wisconsin 53547-1368  
(608) 754-2118

\* Use this number to expedite your manifest order

Out-of-state generators may also use manifests from the above commercial printing companies or use manifests from their home states provided 40 CFR 262.21 is followed. In either case, a form which produces at least five copies should be utilized or, when two haulers are involved, a six copy form should be acquired. Forms using NCR type copies are preferred over carbon paper copies.

Data is required by Oklahoma in all areas pertaining to manifest number, generator state identification number, transporter state identification number, and telephone numbers.

If you have any questions concerning this information, please call 405/271-5338.

<p align="center"><b>MAIL THE COMPLETED FORM</b></p> <p><b>TO:</b> Oklahoma Dept. of Env. Quality</p>	<p align="center">United States Environmental Protection Agency <b>RCRA SUBTITLE C SITE IDENTIFICATION FORM</b></p>						
<p><b>1. Reason for Submittal</b> (See instructions on page 23)</p> <p>MARK CORRECT BOX(ES)</p>	<p><b>Reason for Submittal:</b></p> <p><input type="checkbox"/> To provide Initial Notification of Regulated Waste Activity (to obtain an EPA ID Number for hazardous waste, universal waste, or used oil activities).</p> <p><input type="checkbox"/> To provide Subsequent Notification of Regulated Waste Activity (to update site identification information).</p> <p><input type="checkbox"/> As a component of a First RCRA Hazardous Waste Part A Permit Application.</p> <p><input type="checkbox"/> As a component of a Revised RCRA Hazardous Waste Part A Permit Application (Amendment # _____).</p> <p><input type="checkbox"/> As a component of the Hazardous Waste Report.</p>						
<p><b>2. Site EPA ID Number</b> (See instructions on page 24)</p>	<p><b>EPA ID Number:</b>    _____</p>						
<p><b>3. Site Name</b> (See instructions on page 24)</p>	<p><b>Name:</b></p>						
<p><b>4. Site Location Information</b> (See instructions on page 24)</p>	<p><b>Street Address:</b></p> <table border="1"> <tr> <td><b>City, Town, or Village:</b></td> <td><b>State:</b></td> </tr> <tr> <td><b>County Name:</b></td> <td><b>Zip Code:</b></td> </tr> </table>			<b>City, Town, or Village:</b>	<b>State:</b>	<b>County Name:</b>	<b>Zip Code:</b>
<b>City, Town, or Village:</b>	<b>State:</b>						
<b>County Name:</b>	<b>Zip Code:</b>						
<p><b>5. Site Land Type</b> (See instructions on page 24)</p>	<p><b>Site Land Type:</b>   <input type="checkbox"/> Private   <input type="checkbox"/> County   <input type="checkbox"/> District   <input type="checkbox"/> Federal   <input type="checkbox"/> Indian   <input type="checkbox"/> Municipal   <input type="checkbox"/> State   <input type="checkbox"/> Other</p>						
<p><b>6. North American Industry Classification System (NAICS) Code(s) for the Site</b> (See instructions on page 24)</p>	<p><b>A.</b></p>	<p><b>B.</b></p>	<p><b>C.</b></p>	<p><b>D.</b></p>			
<p><b>7. Site Mailing Address</b> (See instructions on page 25)</p>	<p><b>Street or P. O. Box:</b></p> <p><b>City, Town, or Village:</b></p> <p><b>State:</b></p> <table border="1"> <tr> <td><b>Country:</b></td> <td><b>Zip Code:</b></td> </tr> </table>			<b>Country:</b>	<b>Zip Code:</b>		
<b>Country:</b>	<b>Zip Code:</b>						
<p><b>8. Site Contact Person</b> (See instructions on page 25)</p>	<p><b>First Name:</b></p>	<p><b>MI:</b></p>	<p><b>Last Name:</b></p>				
	<p><b>Phone Number:</b></p>	<p><b>Phone Number Extension:</b></p>					
<p><b>9. Legal Owner and Operator of the Site</b> (See instructions on pages 25 to 26)</p>	<p><b>A. Name of Site's Legal Owner:</b></p>		<p><b>Date Became Owner (mm/dd/yyyy):</b></p>				
	<p><b>Owner Type:</b>   <input type="checkbox"/> Private   <input type="checkbox"/> County   <input type="checkbox"/> District   <input type="checkbox"/> Federal   <input type="checkbox"/> Indian   <input type="checkbox"/> Municipal   <input type="checkbox"/> State   <input type="checkbox"/> Other</p>						
	<p><b>B. Name of Site's Operator:</b></p>		<p><b>Date Became Operator (mm/dd/yyyy):</b></p>				
	<p><b>Operator Type:</b>   <input type="checkbox"/> Private   <input type="checkbox"/> County   <input type="checkbox"/> District   <input type="checkbox"/> Federal   <input type="checkbox"/> Indian   <input type="checkbox"/> Municipal   <input type="checkbox"/> State   <input type="checkbox"/> Other</p>						

Link to NAICS Codes: <http://www.deq.state.ok.us/lpdnew/forms/Haz Waste/naicscodes.htm>

Link to Instructions for Completing this Form: <http://www.deq.state.ok.us/lpdnew/forms/indexhazforms.html>





## COMMENTS ON INSTRUCTIONS

### Item 1 – Reason for Submittal:

“Part A Application” refers to > 90-day **permitted** RCRA storage, treatment, or disposal facilities. If your facility is not **permitted** for > 90-day storage, treatment or disposal, do not check this box.

“Hazardous Waste Report” refers to the Biennial Report that is due by March 1<sup>st</sup> of even-numbered years. The waste report covers only the odd numbered years (e.g., the 2001 Biennial Report covered calendar year 2001 only, and was due by March 1, 2002).

### Item 4 - Site Location

The physical address must be provided so that an EPA Identification Number can be assigned. The Identification Numbers are specific to physical address, and are linked to a particular location. **DO NOT USE A ROUTE NUMBER POST OFFICE BOX.** If the site location is in a rural area, state how many miles from a junction on a certain highway (e.g., 4 miles East of Hwy 281 and 4 miles South of Hwy412).

### Item 6 – NAICS Codes

This is being added to all sites. The lengthy list of Industry Classification System Codes is a required field. The Notification must have an NAICS code marked.

### Item 10 – Type of Regulated Waste Activity

#### A. Hazardous Waste Activities

1. **Generator of Hazardous Waste** As a Large Quantity Generator, your facility may store waste up to 90 days without a RCRA Permit.
2. **Transporter of Hazardous Waste** only mark this box if your facility owns it's own trucks and transports it's own waste. (This does NOT apply to facilities who have a service or company pick up their waste).
3. **Treater, Storer, or Disposer of Hazardous Waste** Only if your facility is permitted for > **90-day** treatment, storage, or disposal of hazardous waste, should this box be marked.

#### B. Universal Waste Activities

There are no State-specific requirements or definitions for universal waste. (The Universal Waste program falls under the jurisdiction of the RCRA Subtitle C program. There are times when a facility has only universal waste, yet is assigned an EPA Identification Number).

#### C. Used Oil Activities

Federal Regulations govern used oil activities. (The Used Oil program also falls under the jurisdiction of the RCRA Subtitle C program. There will be times when a facility has only Used Oil, yet is assigned an EPA Identification Number).

### Item 11.B. - State-Regulated Hazardous Wastes

There are no additional state regulated wastes.

<p align="center"><b>APPLICATION REVIEW CHECKLIST</b></p> <p align="center"><b>LAND PROTECTION DIVISION HAZARDOUS WASTE PROGRAM</b></p> <p align="center"><b>OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY</b></p>	Facility Name: _____ Facility ID No.: _____ ODEQ Permit No.: _____ Reference No.: _____ Application Type: _____ Date: _____ (New/Modify/Renewal)	40 CFR 270 and OAC 252:200  <u>All Permit Applications</u>
Administrative Reviewer: _____ Start Date: _____ Completion Date: _____ Technical Reviewer: _____ Start Date: _____ Completion Date: _____ Issuance Deadline: _____		ODEQ Form Number XXX-XXX  Shaded areas for DEQ use only

ITEM #	FEDERAL REGULATIONS 40 CFR	STATE REGULATIONS OAC 252:205	GENERAL DESCRIPTION	INFO LOCATIO N	ADMIN. COMPLETE	TECHNICALLY COMPLETE	REMARKS
					YES/NO/NA	YES/NO/NA	
G-0	270.10		GENERAL APPLICATION REQUIREMENTS - 270.10				
G-1	270.10(a)		Permit application completed and signed				
G-2	270.10(b)		Who applies? – When a facility is owned by one person but is operated by another person, it is the operator’s duty to obtain a permit, except that the owner must also sign the permit application.				
G-3	270.10(c)		Completeness – all elements included				
G-4	270.10(d)		Information requirements -- information in 270.13 and applicable sections in 270.14 through 270.29				

Facility Name: _____ Reference No.: _____
--

A. Reviewer's Initials _____ Tracking Date _____ T. Reviewer's Initials _____ Tracking Date _____
--

ITEM #	FEDERAL REGULATIONS 40 CFR	STATE REGULATIONS OAC 252:205	GENERAL DESCRIPTION	INFO LOCATION	ADMIN. COMPLETE	TECHNICALLY COMPLETE	REMARKS
					YES/NO/NA	YES/NO/NA	
<b>Existing HWM facilities and interim status qualifications</b>							
G-5	270.10(e)(1)		Must submit part A no later than: (i) 6 months after the date of publication of regulations requiring compliance with 265 or 266, or (ii) 30 days after being subject to standards in 265 or 266, whichever first occurs (iii) March 24, 1987, if a generator who generates more than 100 kg but less than 1,000 kg per month and treats, stores, or disposes on-site				
G-6	270.10(e)(2)		Extension of submittal of part A if: (i) Substantial confusion whether to file a permit application, and (ii) Such confusion is due to ambiguities in 260, 261, 265, or 266				
G-7	270.10(e)(3)		Extension of submittal of part A under compliance order				
G-8	270.10(e)(4)		Timely submittal of part B				
<b>New HWM facilities</b>							
G-9	270.10(f)(1)		No construction allowed before the submittal of parts A and B and receipt of the effective permit				
G-10	270.10(f)(2)		Must submit parts A and B at least 180 days before construction is expected to commence				
G-11	270.10(f)(3)		Construction of an incinerator of PCBs ...				
<b>Updating permit applications</b>							
G-12	270.10(g)(1)		Amendment to part A (when part B has not yet been filed) (i) File with the Regional Administrator for new wastes (ii) File with the State Director for new wastes (iii) As necessary for compliance with 270.72				

Facility Name \_\_\_\_\_  
Reference No \_\_\_\_\_

A. Reviewer's Initials \_\_\_\_\_ Tracking Date \_\_\_\_\_  
T. Reviewer's Initials \_\_\_\_\_ Tracking Date \_\_\_\_\_

ITEM #	FEDERAL REGULATIONS 40 CFR	STATE REGULATIONS OAC 252:205	GENERAL DESCRIPTION	INFO LOCATION	ADMIN. COMPLETE	TECHNICALLY COMPLETE	REMARKS
					YES/NO/NA	YES/NO/NA	
G-13	270.10(h)		<b>Reapplications</b> - 180 days before the expiration of the existing permit				
G-14	270.10(i)		<b>Recordkeeping</b> - for at least 3 years				
<b>Exposure information</b>							
G-15	270.10(j)(1)		Re: surface impoundments and landfills, submittal of part B after 8/8/85, must have information on public exposure from releases, including: (i) Potential releases associated with normal operations, including transportation (ii) Pathways of human exposure from such releases (iii) Potential magnitude and nature of human exposure from such releases				
G-16	270.10(j)(2)		If part B submitted before 8/8/85, must submit exposure information required above, (j)(1)				
G-17	270.10(k)		<b>Submittal of information to establish permit conditions under 270.32(b)(2) and 270.50(d)</b>				
<b>SIGNATORIES TO PERMIT APPLICATIONS AND REPORTS - 270.11</b>							
<b>Applications - signatures</b>							
S-1	270.11(a)(1)		For a corporation (i) President, secretary, treasurer, or vice-president; or (ii) Manager (w/authority to sign) of a facility with more than 250 employees or annual sales of more than \$25 million				
S-2	270.11(a)(2)		For a partnership or sole proprietorship: by a general partner or proprietor				
S-3	270.11(a)(3)		For a municipality, State, Federal, or other public agency (i) Chief executive officer of the agency or (ii) Senior executive officer				

Facility Name \_\_\_\_\_  
Reference No. \_\_\_\_\_

A. Reviewer's Initials \_\_\_\_\_ Tracking Date \_\_\_\_\_  
T. Reviewer's Initials \_\_\_\_\_ Tracking Date \_\_\_\_\_

ITEM #	FEDERAL REGULATIONS 40 CFR	STATE REGULATIONS OAC 252:205	GENERAL DESCRIPTION	INFO LOCATION	ADMIN. COMPLETE	TECHNICALLY COMPLETE	REMARKS
					YES/NO/NA	YES/NO/NA	
S-4	270.11(b)		Reports signed by a person described in (a) or an authorized representative of that person if:				
S-5	270.11(b)(1)		A written authorization by a person described in (a)				
S-6	270.11(b)(2)		An authorization for a position responsible for the overall operation				
S-7	270.11(b)(3)		Submittal of a written authorization				
S-8	270.11(c)		Change to authorization for signing reports				
S-9	270.11(d)		Certification for signature (see cite)				
I-1	270.12(a)		<b>CONFIDENTIALITY OF INFORMATION:</b> (a) "confidential business information" stamped on each page containing such information.				
I-2	270.12(b)		Claims for confidentiality of the name and address of any permit applicant or permittee will be denied.				
A-00	270.13		<b>CONTENTS OF PART A OF THE PERMIT APPLICATION - 270.13</b>				
		<b>SUBCHAPTER 11</b>	<b>ADDITIONAL PERMIT PROCEDURES</b>				
AP-1		11-1 Emergency plans relating to affected property owners	(a) Applicants for new proposed off-site TSD or disposal sites are required to prepare a separate Emergency Plan in addition to the plans required by 40 CFR 264 Subpart D. This Emergency Plan shall the criteria of 40 CFR 264 Subpart D but shall specifically relate to each parcel.				

Facility Name \_\_\_\_\_  
Reference No \_\_\_\_\_

A. Reviewer's Initials \_\_\_\_\_ Tracking Date \_\_\_\_\_  
T. Reviewer's Initials \_\_\_\_\_ Tracking Date \_\_\_\_\_

ITEM #	FEDERAL REGULATIONS 40 CFR	STATE REGULATIONS OAC 252:205	GENERAL DESCRIPTION	INFO LOCATION	ADMIN. COMPLETE	TECHNICALLY COMPLETE	REMARKS
					YES/NO/NA	YES/NO/NA	
AP-2		11-1(b) <i>For the purposes of these rules, a parcel of land owned by one or more affected property owners is a present possessory fee simple estate in land, excluding future interests.</i>	(1) All discrete parcels are required to be counted equally. (2) Owner required to represent the approval or disapproval of the Emergency Plan on behalf of the parcel for purposes of the OHWMA. (3) A calculation of approval or disapproval of the Emergency Plan by majority of the affected property owners is required. (4) Approval or disapproval of the Emergency Plan by an affected property owner does not signify approval or disapproval of the technical aspects of the facility.				
AP-3		11-1(c)	An applicant must submit to the ODEQ the written approval of the Emergency Plan form the affected property owners.				
AP-4		11-1(d)	Within forty-five days of the application, affected property owners must specify reasons for non-approval of the Emergency Plan.				
AP-5		11-1(e)	Area of affected property owners is determined by measuring one-mile from the perimeter of the site as specified in the permit application.				
AP-6		11-2 Exclusionary siting criteria	(a) Ground-water resources and recharge areas.				
AP-7		11-2(a)(1)	<b>Presumption of unapprovable site.</b> Proposed locations lying within areas designated as unconsolidated alluvial aquifers or terrace deposit aquifers or bedrock aquifers or recharge areas as shown on Sheets 1 and 2 of "Maps Showing Principal Ground Water Resources and Recharge Areas in Oklahoma" shall be presumed to be unapprovable. Certification of notifying affected property owners				

Facility Name \_\_\_\_\_  
Reference No. \_\_\_\_\_

A. Reviewer's Initials \_\_\_\_\_ Tracking Date \_\_\_\_\_  
T. Reviewer's Initials \_\_\_\_\_ Tracking Date \_\_\_\_\_

ITEM #	FEDERAL REGULATIONS 40 CFR	STATE REGULATIONS OAC 252:205	GENERAL DESCRIPTION	INFO LOCATION	ADMIN. COMPLETE	TECHNICALLY COMPLETE	REMARKS
					YES/NO/NA	YES/NO/NA	
AP-8		11-2(a)(2)	<p><b>Rebuttal of presumption.</b></p> <p>The applicant may rebut the presumption by submitting hydrologic and geological data sufficient to demonstrate that the proposed location does not lie within a prohibited area.</p>				
AP-9		11-2 (a)(3)	<p><b>ODEQ reliance upon Oklahoma Geological Survey.</b></p> <p>In determining whether a proposed location lies within a prohibited area, the ODEQ will rely upon a review by the Oklahoma Geological Survey.</p>				
AP-10		11-2 (a)(4)	<p><b>Site-specific information.</b></p> <p>The ODEQ may require site-specific hydrological and geological information for proposed facility locations outside a designated principal ground-water resource or discharge area where there is reason to believe that the proposed location may be unsuitable due to localized ground-water conditions.</p>				
AP-11		11-2(a)(5)	<p><b>Ground-water protection plan.</b></p> <p>In determining whether a ground-water protection plan with financial assurance is required for an on-site facility pursuant to 27A O.S. § 2-7-111(B), the procedures used in subsections (1)-(4) of this section shall be used.</p>				

Facility Name \_\_\_\_\_  
 Reference No. \_\_\_\_\_

A. Reviewer's Initials \_\_\_\_\_ Tracking Date \_\_\_\_\_  
 T. Reviewer's Initials \_\_\_\_\_ Tracking Date \_\_\_\_\_

ITEM #	FEDERAL REGULATIONS 40 CFR	STATE REGULATIONS OAC 252:205	GENERAL DESCRIPTION	INFO LOCATIONS	ADMIN. COMPLETE	TECHNICALLY COMPLETE	REMARKS
					YES/NO/NA	YES/NO/NA	
AC-0		11-2(a)(6)	<p><b>Existing facilities.</b></p> <p>Existing facilities in these areas may continue to operate and may modify or expand their operations to the extent permitted by 27A O.S. § 2-7-111.</p>				
AC-1		11-2(b)	<p><b>Water wells.</b></p> <p>The ODEQ shall not grant a permit for a new hazardous waste disposal facility proposed to be located within one-quarter mile of any public or private water supply well except private water supply wells on the applicant's property. Water supply wells that are demonstrated by the applicant to be permanently abandoned may be plugged upon a demonstration that the applicant has the right to plug them. The applicant shall notify the ODEQ that the abandoned water wells have been plugged. If abandoned water wells are identified by the applicant during the preparation of his application or during the permit process, the applicant shall notify the ODEQ so that these wells can be included in the Class V well inventory.</p>				
AC-2		11-2(c)	<p><b>Flood plain.</b></p> <p>No permit or modification of an existing permit which includes disposal of hazardous waste within a one-hundred-year flood plain shall be granted, except for post-closure or corrective action. For existing facilities, this modification prohibition applies only to land disposal units and to modifications of such units which would increase disposal rates or designate new areas for disposal.</p>				
AC-3		11-2(d)	<p><b>Surface water.</b></p> <p>No permit shall be granted for a new hazardous waste disposal facility proposed to be located within one mile of the conservation pool elevation of any reservoir which supplies water for a public water supply or within one mile off any scenic river.</p>				

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					YES/NO/NA	YES/NO/NA	
AC-4		11-2(e)	<b>Air pollution.</b> No permit shall be granted for a new off-site hazardous waste disposal facility proposed to be located within one mile of any public school, educational institution, nursing home, hospital or public park.				
AC-5		11-2(f)	The Hazardous Waste Management Act also contains exclusionary siting criteria. See 27A O.S. § 2-7-111(B) and (C)(1) and § 2-7-114, as amended.				
AC-6		11-3	<b>Upgrades of county roads and bridges.</b> The owner/operator shall submit a certificate of acceptance of the completed upgrades by the appropriate board(s) of county commissioners or the Oklahoma Department of Transportation, as appropriate, pursuant to 27A O.S. § 2-7-115(B)(2).				
<b>GENERAL REQUIREMENTS FOR CONTENTS OF PART B APPLICATION - 270.14</b>							
General Information							
B-1	270.14(b)(1)		General description of the facility				
B-2	270.14(b)(2)		Chemical and physical analyses of hazardous wastes				
B-3	270.14(b)(3)		A copy of waste analysis plan				
B-4	270.14(b)(4)		A description of security measures				
B-5	270.14(b)(5)		A copy of the general inspection schedule				
B-6	270.14(b)(6)		Justification of requests for a waiver of preparedness and prevention				
B-7	270.14(b)(7)		A copy of the contingency plan				

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					YES/NO/NA	YES/NO/NA	
B-8	270.14(b)(8)		Safety procedures, equipment, construction to prevent: (i) Hazard in unloading operations (ii) Runoff from HW areas (iii) Contamination of water supplies (iv) Effects of equipment/power failure (v) Exposure of personnel to HW (vi) Releases to atmosphere				
B-9	270.14(b)(9)		Prevention of accidental ignition, reaction of ignitable, reactive or incompatible wastes				
B-10	270.14(b)(10)		Traffic pattern information				
B-11	270.14(b)(11)		Facility location information (i) Identification of political jurisdiction (ii) Compliance with seismic standard (if located in areas listed in 264 appendix VI) (A) No faults within 3,000 ft, data based from: (1) Published geologic studies (2) Aerial reconnaissance of a 5-mile radius (3) Aerial analysis of a 3,000-foot radius (4) If needed, reconnaissance walking within 3,000-foot radius (B) Faults ... (iii) Identification of 100-year floodplain (iv) Requirements if located within 100-year floodplain ... (v) Compliance schedule for existing facilities NOT in compliance with 264.18(b)				
B-12	270.14(b)(12)		Training programs in compliance with 264.16				
B-13	270.14(b)(13)		A copy of the closure plan and, if applicable, post-closure plan				
B-14	270.14(b)(14)		Documentation filed (required under 264.119) for closed units				
B-15	270.14(b)(15)		Closure estimates (required under 264.142) and financial assurance (required under 264.143)				

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					YES/NO/NA	YES/NO/NA	
B-16	270.14(b)(16)		The most recent post-closure estimates (required under 264.144) and financial assurance (required under 264.145), where applicable				
B-17	270.14(b)(17)		Insurance policy or other documentation in compliance with 264.147, where applicable				
B-18	270.14(b)(18)		Coverage by a State financial mechanism in compliance with 264.149 and 264.150, where appropriate				
B-19	270.14(b)(19)		A 1" = 200 ft topographic map with contours showing 1000 ft around the facility and: (i) Map scale and date (ii) 100-year floodplain (iii) Surface waters (iv) Surrounding land uses (v) Wind rose (vi) Orientation of the map (vii) Legal boundaries of the facility (viii) Access control (ix) Injection and withdrawal wells both on and off-site (x) Buildings, structures (xi) Barriers for drainage or flood control (xii) Location of operational units				
B-20	270.14(b)(21)		Notice of approval of petition for extension for land disposal facilities, if applicable				
<b>Additional information</b>							
B-21	270.14(c)(1)		A summary of groundwater monitoring data during interim status (under 265.90 - 94), where applicable				
B-22	270.14(c)(2)		Identification of the uppermost aquifer, hydraulically connected aquifers, flow direction and rate, and basis for such identification				

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					YES/NO/NA	YES/NO/NA	
B-23	270.14(c)(3)		On the topo map, a delineation of the waste management area, property boundary, the proposed point of compliance (264.95), proposed GW monitoring wells (264.97), and info from 270.14(c)(2)				
B-24	270.14(c)(4)		Description of any plume of contamination from a regulated unit: (i) The extent of the plume on the topo map (ii) Identification of concentrations of constituents in Appendix IX of 264				
B-25	270.14(c)(5)		A detailed GW monitoring program with engineering report (264.97)				
B-26	270.14(c)(6)		If a hazardous constituent has <u>not been detected</u> at time of application, establish a <u>detection monitoring program</u> (264.98): (i) Indicator parameters, waste constituents (ii) A proposed groundwater monitoring system (iii) Background values (iv) Proposed sampling, analysis, and statistical procedures				
B-27	270.14(c)(7)		If a hazardous constituent has <u>been detected</u> at time of application, establish a <u>compliance monitoring program</u> (264.99): (i) A description of wastes previously handled (ii) A characterization of the contaminated GW (iii) A list of hazardous constituents (264.97 & 264.99) (iv) Proposed concentration limits (264.94(a)) or justification for alternate limits (v) A proposed GW monitoring system (vi) Proposed sampling, analysis, and statistical procedures (vii) A proposed Engineering Feasibility Plan for corrective action				

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					YES/NO/NA	YES/NO/NA	
B-28	270.14(c)(8)		If hazardous constituents have <u>exceeded</u> concentration limits (Table 1, 264.94) or background values, establish a <u>corrective action program</u> (264.100): (i) A characterization of contaminated GW (ii) Concentration limits (264.94) (iii) A detailed corrective action program and engineering report (iv) Demonstration of adequacy of the corrective program				
<b>Information on SWMUs</b>							
B-29	270.14(d)(1)		Information requirements for SWMUs: (i) Location of the unit on the topo map (ii) Designation of type of unit (iii) Dimensions and structural description (iv) When the unit was operated (v) Specification of all wastes at the unit				
B-30	270.14(d)(2)		Information on HW release from each SWMU				
B-31	270.14(d)(3)		Results of sampling and analysis of groundwater, land surface, and subsurface strata, surface water or air to determine if an RFA is needed				
<b>SPECIFIC PART B INFORMATION REQUIREMENTS FOR CONTAINERS - 270.15</b>							
Except as otherwise provided in 264.170, the following additional information must be provided:							
C-1	270.15(a)		Description of the containment system in compliance with 264.175				
C-2	270.15(a)(1)		Basic design parameters, dimensions, and materials of construction				
C-3	270.15(a)(2)		Showing of how design promotes drainage or keeps containers from contacting standing liquid.				
C-4	270.15(a)(3)		Capacity of the containment system relative to the number and volume of containers stored				
C-5	270.15(a)(4)		Provisions for preventing or managing run-on				

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					YES/NO/NA	YES/NO/NA	
C-6	270.15(a)(5)		Showing of how accumulated liquids can be analyzed and removed to prevent overflow				
C-7	270.15(b)		For storage areas with containers that do not contain free liquid, a showing of compliance with 264.175(c)				
C-8	270.15(b)(1)		Test procedures and results or documentation to show wastes do not contain free liquids				
C-9	270.15(b)(2)		Description of storage area design and operation to drain/remove liquid or keep containers from contacting standing liquids				
C-10	270.15(c)		Sketches, drawings, or data to show compliance with 264.176 (ignitable reactive wastes) and 264.177(c) (incompatible wastes)				
C-11	270.15(d)		Procedures in compliance with 264.177(a) & (b) and 264.17(b) & (c) for storing of incompatible wastes				
<b>SPECIFIC PART B INFORMATION REQUIREMENTS FOR TANK SYSTEMS - 270.16</b>							
Except as otherwise provided in 264.190, the following additional information must be provided:							
T-1	270.16(a)		A written assessment by an independent P.E. to certify the structural integrity and suitability for handling of hazardous wastes of each tank system as req. under 264.191 & 192 - 270.16(a)				
T-2	270.16(b)		Dimensions and capacity of each tank				
T-3	270.16(c)		Description of feed systems, safety cutoff, bypass systems, and pressure controls				
T-4	270.16(d)		A diagram of piping, instrumentation, and process flow for each tank system				
T-5	270.16(e)		A description of corrosion protection system as required under 264.192(a)(3)(ii)				

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					YES/NO/NA	YES/NO/NA	
T-6	270.16(f)		For new tank systems, a description of how the tank system(s) will be installed in compliance with 264.192(b),(c),(d),(e)				
T-7	270.16(g)		Detailed plans and description of the secondary containment system in compliance with 264.193(a), (b), (c), (d), (e), (f)				
<b>Variance from the requirements of 264.193</b>							
T-8	270.16(h)(1)		Detailed plans and engineering and hydrogeologic reports showing alternative safeguards				
T-9	270.16(h)(2)		A detailed assessment of hazards in event of release				
T-10	270.16(i)		Description of spill and overflow prevention as required under 264.194(b)				
T-11	270.16(j)		Description of operating procedures, tank system design, facility design for Ignitable/Reactive and incompatible wastes as required under 264.198, 199				
<b>SPECIFIC PART B INFORMATION REQUIREMENTS FOR SURFACE IMPOUNDMENTS - 270.17</b>							
Except as otherwise provided in 264.1, must provide the following information:							
SI-1	270.17(a)		A list of hazardous wastes to be placed in each impoundment				
SI-2	270.17(b)		Detailed plans and engineering report on design, construction, operations, and maintenance as required in 264.19, 221, 222, 223, addressing:				
SI-3	270.17(b)(1)		The liner system				
SI-4	270.17(b)(2)		The double liner and leak detection, collection, and removal system as req. under 264.221(c)				
SI-5	270.17(b)(3)		If the leak detection system is in the saturated zone, detailed plans and engineering report on the leak detection design and operation, and the location of the saturated zone in relation to the leak detection system				

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					YES/NO/NA	YES/NO/NA	
SI-6	270.17(b)(4)		The construction quality assurance plan (CQA) if required under 264.19				
SI-7	270.17(b)(5)		Proposed action leakage rate and response action plans if required under 264.222 & 223				
SI-8	270.17(b)(6)		Prevention of overtopping				
SI-9	270.17(b)(7)		Structural integrity of dikes				
SI-10	270.17(c)		The inspection program for each surface impoundment including double liner system, leak detection system, cover system, and appurtenances for control of overtopping as req. under 264.226(a),(b),(d) submitted under 270.14(b)(5)				
SI-11	270.17(d)		A certification by a qualified engineer on the structural integrity of the dikes as req. under 264.226(c)				
SI-12	270.17(e)		The procedure to remove a surface impoundment from service as req. under 264.227(b), (c) submitted under 270.14(b)(7)				
SI-12	270.17(f)		Procedure to remove hazardous waste residues and contaminated materials at closure as req. under 264.228(a)(1). For non-removed wastes, must comply with 264.228(a)(2) and (b). This information be submitted in closure and post-closure plan under 270.14(b)(13)				
SI-13	270.17(g)		Compliance with 264.229 for I/R wastes				
SI-14	270.17(h)		Compliance with 264.230 for incompatible wastes				
SI-15	270.17(i)		A waste management plan for F020 through F027 as req. under 264.231. Must address:				
SI-16	270.17(i)(1)		The volume, physical and chemical characteristics including migration potential to the environment				
SI-17	270.17(i)(2)		The attenuative properties of the underlying and surrounding soils				

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					YES/NO/NA	YES/NO/NA	
SI-18	270.17(i)(3)		The mobilizing properties of co-disposed materials				
SI-19	270.17(i)(4)		The effectiveness of additional treatment, design, or monitoring techniques				
<b>SPECIFIC PART B INFORMATION REQUIREMENTS FOR WASTE PILES - 270.18</b>							
Except as otherwise provided in 264.1, the following information must be provided:							
W-1	270.18(a)		A list of hazardous wastes				
W-2	270.18(b)		If an exemption is sought, compliance with 264.90(b)(2) and 264.250(c)				
W-3	270.18(c)		Detailed plans and engineering reports on the design, construction, operation, and maintenance as req. under 264.19, 251, 252, and 253, addressing:				
W-4	270.18(c)(1)		(i) The liner system as req. under 264.251(a) (ii) The double liner and leak detection, collection, and removal system (LCRS) as req. under 264.251(c) (iii) If the leak detection system is in the saturated zone, detailed plans and engineering report on the leak detection design and operation, and the location of the saturated zone in relation to the leak detection system (iv) The construction quality assurance plan as req. under 264.19 (v) The proposed action leakage rate and response action plan as req. under 264.252 and 264.253				
W-5	270.18(c)(2)		Control of run-on				
W-6	270.18(c)(3)		Control of run-off				
W-7	270.18(c)(4)		Management of run-on/run-off collection and holding units				
W-8	270.18(c)(5)		Control of wind dispersion				

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					YES/NO/NA	YES/NO/NA	
W-9	270.18(d)		The inspection program for each waste pile including double liner system, LCRS, cover system, and appurtenances for control of run-on and run-off as req. under 264.254(a), (b), (c)				
W-10	270.18(e)		If treatment is carried out on the pile, details of the process, equipment, and nature and quality of residue				
W-11	270.18(f)		Compliance with 264.256 for I/R wastes				
W-12	270.18(g)		Compliance with 264.257 for incompatible wastes				
W-13	270.18(h)		Closure plan as req. under 264.258(a) or 264.310(a)				
W-14	270.18(i)		A waste management plan for F020 through F027 as req. under 264.259				
W-15	270.18(i)(1)		The volume, physical, and chemical characteristics of the wastes and the potential to migrate to the environment				
W-16	270.18(i)(2)		The attenuative properties of soils				
W-17	270.18(i)(3)		The mobilizing properties of the co-disposed materials				
W-18	270.18(i)(4)		The effectiveness of additional treatment, design, or monitoring techniques				
<b>SPECIFIC PART B INFORMATION REQUIREMENTS FOR INCINERATORS - 270.19</b>							
Except as otherwise provided in 264.340, must fulfill the following (a), (b), or (c)							
IN-1	270.19(a)		Seeking an exemption under 264.340(b) or (c) (ignitable, corrosive, or reactive)				
IN-2	270.19(a)(1)		Documentation waste listed in 261 subpart D, solely because ignitable (Hazard Code I) or corrosive (Hazard Code C) or both, or				
IN-3	270.19(a)(2)		Documentation that waste listed in 261 subpart D, solely because reactive (Hazard Code R) for characteristics other than those listed in 261.23(a)(4) and (5) and will not be burned with other HW, or				

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					YES/NO/NA	YES/NO/NA	
IN-4	270.19(a)(3)		Documentation that waste hazardous solely for the characteristic of ignitability, corrosivity, or both, or				
IN-5	270.19(a)(4)		Documentation that waste hazardous solely for the characteristics of reactivity listed in 261.23(a)(1),(2),(3),(6),(7), or (8) and will not be burned with other HW, or				
IN-6	270.19(b)		Trial burn plan or results as req. under 270.62				
<b>In lieu of a trial burn</b>							
IN-7	270.19(c)(1)		Waste analysis, including: (i) Heat value (ii) Viscosity or physical form (iii) Organic constituents listed in 261, appendix VIII (test methods referenced in 261, appendix III) (iv) Quantification of constituents (see test methods by reference in 270.6) (v) Quantification of constituents designated as POHC's as req. under 264.343				
IN-8	270.19(c)(2)		Detailed engineering description of the incinerator, including: (i) Manufacturer's name and model (ii) Type of incinerator (iii) Dimensions (linear and x-section area) (iv) Auxiliary fuel system (type/feed) (v) Capacity of prime mover (vi) Automatic cutoff system (vii) Stack gas and pollution control monitoring systems (viii) Nozzle and burner design (ix) Construction materials (x) Temperature, pressure, and flow indicating devices and control devices				
IN-9	270.19(c)(3)		A description and analysis (specifying POHC's) of the waste to be burned. Include data in (c)(1)				

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					YES/NO/NA	YES/NO/NA	
IN-10	270.19(c)(4)		The design and operating conditions of the incinerator compared with those of trial burns				
IN-11	270.19(c)(5)		Results of trial burns, including: (i) Sampling and analysis techniques to calculate performance standards in 264.343 (ii) Methods and results of temperatures, feed rates, CO, combustion gas velocity				
IN-12	270.19(c)(6)		The expected operation information in compliance with 264.343 and 345 including: (i) CO in the exhaust (ii) Waste feed rate (iii) Combustion zone temperature (iv) Combustion gas velocity (v) Stack gas volume, flow rate, and temperature (vi) Residence time (vii) Hydrochloric acid removal efficiency (viii) Fugitive emissions and control procedures (ix) Feed cut-off limits based on operating parameters				
IN-13	270.19(c)(7)		Supplemental information necessary to achieve the purposes of this paragraph				
IN-14	270.19(c)(8)		Waste analysis data (permit POHC's)				
<b>Approval of permit without a trial burn if:</b>							
IN-15	270.19(d)(1)		Wastes are sufficiently similar				
IN-16	270.19(d)(2)		Incinerator units are sufficiently similar and data from other trial burns are adequate to specify (under 264.345) operating conditions will meet performance standards (under 264.343)				
<b>SPECIFIC PART B INFORMATION REQUIREMENTS FOR LAND TREATMENT FACILITIES - 270.20</b>							
Except as provided in 264.1, must provide the following information:							

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					YES/NO/NA	YES/NO/NA	
LT-1	270.20(a)		Plans to conduct a treatment demonstration as req. under 264.272, must include:				
LT-2	270.20(a)(1)		Wastes for demonstration and their hazardous constituents				
LT-3	270.20(a)(2)		Data sources to be used to make demonstration				
LT-4	270.20(a)(3)		Specific lab or field test: (i) Type of test (ii) Materials and methods, inc. analytical procedures (iii) Expected time of completion (iv) Simulated characteristics: treatment zone, climatic conditions, and operating practices				
LT-5	270.20(b)		Description of land treatment program as req. under 264.271, must include:				
LT-6	270.20(b)(1)		Wastes to be treated				
LT-7	270.20(b)(2)		Design measures and operating practices as req. under 264.273(a), including: (i) Application method and rate (ii) Measures to control soil pH (iii) Enhancement of microbial or chemical reactions (iv) Control of moisture content				
LT-8	270.20(b)(3)		Monitoring unsaturated zone: (i) Sampling equipment, procedures, and frequency (ii) Procedures for selecting sampling locations (iii) Analytical procedures (iv) Chain of custody (v) Procedures for establishing background values (vi) Statistical methods for interpreting results (vii) Justification for selecting principal hazardous constituents under 264.278(a) criteria				
LT-9	270.20(b)(4)		List of hazardous constituents derived from or in wastes based on analytical procedures in 264.13				
LT-10	270.20(b)(5)		Dimensions of the treatment zone				

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					YES/NO/NA	YES/NO/NA	
LT-11	270.20(c)		Description of the design, construction, operations, and maintenance as req. under 264.273, must include:				
LT-12	270.20(c)(1)		Control of run-on				
LT-13	270.20(c)(2)		Collection and control of run-off				
LT-14	270.20(c)(3)		Minimization of run-off of hazardous constituents from the treatment zone				
LT-15	270.20(c)(4)		Management of collection and holding facilities associated with run-on and run-off control systems				
LT-16	270.20(c)(5)		Periodic inspection as included in 270.14(b)(5)				
LT-17	270.20(c)(6)		Control of wind dispersal of particulate matter				
LT-18	270.20(d)		Description of the demonstration as req. under 264.276(a) if food-chain crops are to be grown in the treatment zone, including:				
LT-19	270.20(d)(1)		Characteristics of the food-chain crop for which the demonstration will be made				
LT-20	270.20(d)(2)		Characteristics of the waste, treatment zone, and waste application method and rate				
LT-21	270.20(d)(3)		Procedures for crop growth, sample collection, sample analysis, and data evaluation				
LT-22	270.20(d)(4)		Characteristics of the comparison crop including the location and conditions				
LT-23	270.20(e)		Compliance with requirements under 264.276(b) if food-chain crops are to be grown and cadmium is present				
LT-24	270.20(f)		Description of the vegetative cover and its post-closure care as req. under 264.280(a)(8) and (c)(2). Submittal under 270.14(b)(13)				
LT-25	270.20(g)		Compliance with 264.281 if I/R wastes will be placed in the treatment zone				

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ITEM #	FEDERAL REGULATIONS 40 CFR	STATE REGULATIONS OAC 252:205	GENERAL DESCRIPTION	INFO LOCATION	ADMIN. COMPLETE	TECHNICALLY COMPLETE	REMARKS
					YES/NO/NA	YES/NO/NA	
LT-26	270.20(h)		Compliance with 264.282 if incompatible wastes will be placed in the treatment zone				
LT-27	270.20(i)		Waste management plan for F020 through F027 and description of the design, construction, operations, and maintenance as req. under 264.283. Must address:				
LT-28	270.20(i)(1)		Volume, physical, and chemical characteristics, including the potential to migrate to the environment				
LT-29	270.20(i)(2)		Attenuative characteristics of the soils				
LT-30	270.20(i)(3)		Mobilizing properties of co-disposed materials				
LT-31	270.20(i)(4)		Effectiveness of additional treatment, design, or monitoring techniques.				
<b>SPECIFIC PART B INFORMATION REQUIREMENTS FOR LANDFILLS - 270.21</b>							
Except as otherwise provided in 264.1, the following information must be provided:							
LF-1	270.21(a)		List of hazardous wastes				
LF-2	270.21(b)		Plans and engineering report on the design, construction, operations, and maintenance as req. under 264.19, 301, 302, and 303, addressing:				
LF-3	270.21(b)(1)		<ul style="list-style-type: none"> <li>(i) the liner system as req. under 264.301(a) or an exemption as req. under 264.301(b)</li> <li>(ii) The double liner and leachate detection, collection, and removal as req. under 264.301(c) or an exemption as req. under 264.301(d),(e), or (f)</li> <li>(iii) Plans and engineering report if the leak detection is located in the saturated zone</li> <li>(iv) The construction quality assurance plan as req. under 264.19</li> <li>(v) The proposed action leakage rate (264.302) and response action plan (264.303)</li> </ul>				

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ITEM #	FEDERAL REGULATIONS 40 CFR	STATE REGULATIONS OAC 252:205	GENERAL DESCRIPTION	INFO LOCATION	ADMIN. COMPLETE	TECHNICALLY COMPLETE	REMARKS
					YES/NO/NA	YES/NO/NA	
LF-4	270.21(b)(2)		Control of run-on				
LF-5	270.21(b)(3)		Control of run-off				
LF-6	270.21(b)(4)		Management of collection and holding facilities associated with run-on and run-off control systems				
LF-7	270.21(b)(5)		Control of wind dispersal				
LF-8	270.21(c)		Inspection of each landfill, including the double liner system, LCRS, leak detection, cover system, appurtenances for control of run-on and run-off as req. under 264.303(a),(b) and (c). This information to be submitted under 270.14(b)(5)				
LF-9	270.21(d)		Description of the proposed inspection of each landfill, including the liner and cover systems as req. under 264.303(a),and (b). Inspection plan to be submitted under 270.14(b)(5)				
LF-10	270.21(e)		Plans and engineering report on the final cover at closure as req. under 264.310(a), and maintenance and monitoring after closure as req. under 264.310(b). This information be submitted under 270.14(b)(13)				
LF-11	270.21(f)		If I/R wastes to be landfilled, explanation of compliance with 264.312				
LF-12	270.21(g)		If incompatible wastes to be landfilled, explanation of compliance with 264.313				
LF-13	270.21(i)		If containers of HW are to be landfilled, explanation of compliance with 264.315 or 316				
LF-14	270.21(j)		Waste management plan for F020 through F027 and description of the design, construction, operations, and maintenance as req. under 264.317. Must address:				
LF-15	270.21(j)(1)		Volume, physical and chemical characteristics, and potential to migrate to the environment				
LF-16	270.21(j)(2)		Attenuative properties of soils				

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ITEM #	FEDERAL REGULATIONS 40 CFR	STATE REGULATIONS OAC 252:205	GENERAL DESCRIPTION	INFO LOCATION	ADMIN. COMPLETE	TECHNICALLY COMPLETE	REMARKS
					YES/NO/NA	YES/NO/NA	
LF-17	270.21(j)(3)		Mobilizing properties of co-disposed materials				
LF-18	270.21(j)(4)		Effectiveness of additional treatment, design, and monitoring techniques				
SPECIFIC PART B INFORMATION REQUIREMENTS FOR BOILERS AND INDUSTRIAL FURNACES - 270.22							
Trial burns							
BF-1	270.22(a)(1)		<p><i>General.</i> Subject to standards by 266.104, 105, 106, and 107 and plan and results of a trial burn as req. under 270.66</p> <p>(i) Waiver of trial burn under 266.104 through 107 and (a)(2) through (5) of this section</p> <p>(ii) Submittal of data in lieu of a trial burn as prescribed in (a)(6) of this section</p>				

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					YES/NO/NA	YES/NO/NA	
BF-2	270.22(a)(2)		<p><i>Waiver of trial burn for DRE</i></p> <p>(i) Boilers operated under special operating requirements by 266.110</p> <p>(ii) Boilers and industrial furnaces burning low risk waste provided by 266.104(a)(5) and 266.109(a), must submit:</p> <p>(A) Documentation that the device is operated as req. under 266.109(a)(1)</p> <p>(B) Results of analyses of each waste to be burned, documenting non-metal compounds in appendix VIII of 261. Identification and basis for constituents excluded from the analysis. Analysis techniques in Test Methods for Evaluating Solid Waste, Physical/Chemical Methods (see 260.11)</p> <p>(C) Documentation of firing rates and calculations of worst-case emission rates for each constituent in (a)(2)(ii)(B) using procedures in 266.109(a)(2)(ii)</p> <p>(D) Results of dispersion modeling for emissions in (a)(2)(ii)(C) using procedures in 266.106(h). Director is to approve the modeling or recommend an alternate method</p> <p>(E) Documentation that the maximum annual average ground level concentration of each constituent in (a)(2)(ii)(B) in conformance with (a)(2)(ii)(D) does not exceed the allowable ambient level in appendices IV or V of 266. For levels not established, use 0.1 micrograms per cubic meter.</p>				

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					YES/NO/NA	YES/NO/NA	
BF-3	270.22(a)(3)		<p><i>Waiver of trial burn for metals</i> Under Tier I (or adjusted Tier I) metals feed rate screening limits by 266.106(b) and (e), must submit:</p> <ul style="list-style-type: none"> <li>(i) Feed rate of HW and other fuels, and industrial furnace feed stocks</li> <li>(ii) Concentration of each metal controlled by 266.106(b) or (e), and calculations of the total feed rate</li> <li>(iii) Documentation that Tier I feed rate screening limits by 266.106(b) or (e) will not be exceeded during the averaging period</li> <li>(iv) Determination of the terrain-adjusted effective stack height, good engineering practice stack height, terrain type, and land use by 266.106(b)(3) through (5)</li> <li>(v) Documentation of compliance with 266.106(b)(6) for multiple stacks</li> <li>(vi) Documentation of no failure of criteria in 266.106(b)(7) for eligibility to comply with screening limits</li> <li>(vii) Sampling and metals analysis plan for the HW, other fuels, and industrial furnace feed stocks</li> </ul>				
BF-4	270.22(a)(4)		<p><i>Waiver of trial burn for particulate matter</i> Under the low risk waste by 266.109(b), must submit documentation supporting conformance with (a)(2)(i) and (a)(3)</p>				

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ITEM #	FEDERAL REGULATIONS 40 CFR	STATE REGULATIONS OAC 252:205	GENERAL DESCRIPTION	INFO LOCATION	ADMIN. COMPLETE	TECHNICALLY COMPLETE	REMARKS
					YES/NO/NA	YES/NO/NA	
BF-5	270.22(a)(5)		<p><i>Waiver of trial burn for HCl and Cl<sub>2</sub>. Under the Tier I (or adjusted Tier I) feed rate screening limits by 266.107(b)(1) and (e), must submit:</i></p> <ul style="list-style-type: none"> <li>(i) Feed rate of HW and other fuels, and industrial furnace feed stocks</li> <li>(ii) Levels of total chloride and chlorine and calculations of the total feed rate</li> <li>(iii) Documentation that Tier I feed rate screening limits by 266.107(b) or (e) will not be exceeded during the averaging period</li> <li>(iv) Determination of the terrain-adjusted effective stack height, good engineering practice stack height, terrain type, and land use by 266.107(b)(3)</li> <li>(v) Documentation of compliance with 266.107(b)(4) for multiple stacks</li> <li>(vi) Documentation of no failure of criteria in 266.107(b)(3) for eligibility to comply with screening limits</li> <li>(vii) Sampling and analysis plan for total chloride and chlorine for the HW, other fuels, and industrial furnace feed stocks</li> </ul>				

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ITEM #	FEDERAL REGULATIONS 40 CFR	STATE REGULATIONS OAC 252:205	GENERAL DESCRIPTION	INFO LOCATION	ADMIN. COMPLETE	TECHNICALLY COMPLETE	REMARKS
					YES/NO/NA	YES/NO/NA	
BF-6	270.22(a)(6)		<p><i>Data in lieu of trial burn</i> Providing information required by 270.66 from previous compliance testing in conformance with 266.103, or from trial burns of similar devices burning similar wastes under similar conditions in conformance with 266.102(c). In addition, submit:</p> <p>(i) For a waiver of any trial burn:</p> <p>(A) A description and analysis of the HW to be burned compared with HW of the compliance testing</p> <p>(B) The design and operating conditions of the furnace compared with that of the comparative burn</p> <p>(C) Supplemental information</p> <p>(ii) For a waiver of the DRE trial burn - basis for selection of POHCs used in comparative burns in compliance with DRE standard in 266.104(a). The analysis should specify constituents in appendix VIII of 261</p>				
<i>Alternate HC limit (under 266.104(f)) for industrial furnaces with organic matter in raw materials, submit:</i>							
BF-7	270.22(b)(1)		Documentation of design and operation to minimize HC emissions				
BF-8	270.22(b)(2)		Baseline flue gas HC (and CO) concentration and levels under normal conditions when burning and not burning HW				
BF-9	270.22(b)(3)		Test burn protocol				
BF-10	270.22(b)(4)		<p>Trial burn plan to:</p> <p>(i) Demonstrate flue gas HC (and CO) when burning HW do not exceed the base line</p> <p>(ii) Identify the types and concentrations of organic compounds listed in appendix VIII of 261 emitted when burning HW</p>				
BF-11	270.22(b)(5)		Plan to monitor over time changes in the operation to reduce the baseline and procedures to periodically confirm the base line				

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					YES/NO/NA	YES/NO/NA	
BF-12	270.22(b)(6)		Other necessary information				
BF-13	270.22(c)		<i>Alternate metals implementation approach</i> (under 266.106(f)) in compliance with 266.106(c) or (d). How the approach is to be implemented and monitored				
BF-14	270.22(d)		<i>Automatic waste feed cutoff system</i> including pre-alarm systems				
BF-15	270.22(e)		<i>Direct transfer</i> submit information to conform with 266.111				
BF-16	270.22(f)		<i>Residues</i> submit information to conform with 266.112				
<b>SPECIFIC PART B INFORMATION REQUIREMENTS FOR MISCELLANEOUS UNITS - 270.23</b>							
Except as otherwise provided in 264.600, the following information must be provided:							
M-1	270.23(a)		Description of the unit:				
M-2	270.23(a)(1)		Physical characteristics, materials of construction, and dimensions of the unit				
M-3	270.23(a)(2)		Plans and engineering reports on the location, design, construction, operations, maintenance, monitoring, inspection, and closure to comply with 264.601 and 602				
M-4	270.23(a)(3)		Plans to comply with post-closure requirements of 264.603, if applicable				
M-5	270.23(b)		Detailed hydrologic, geologic, and meteorologic assessments and land-use maps in compliance with 264.601				
M-6	270.23(c)		Information on the potential exposure to humans or the environment, the potential magnitude and nature of such exposures				
M-7	270.23(d)		Report on effectiveness of the treatment				

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					YES/NO/NA	YES/NO/NA	
M-8	270.23(e)		Any additional information to comply with 264.601				
<b>SPECIFIC PART B INFORMATION REQUIREMENTS FOR PROCESS VENTS - 270.24</b> Except as otherwise provided in 264.1, process vents subject to subpart AA of 264 must provide the following information:							
V-1	270.24(a)		For facilities that can not timely comply with 264 subpart AA, implementation schedule as specified in 264.1033(a)(2)				
V-2	270.24(b)		Documentation of compliance with 264.1032, including:				
V-3	270.24(b)(1)		Data on all affected process vents, their annual throughput and operating hours, the individual and total emission rate, and their locations.				
V-4	270.24(b)(2)		Data on vent emissions and emission reductions				
V-5	270.24(b)(3)		Data used in determination if a process vent is subject to 264.1032				
V-6	270.24(c)		When use a control device other than a thermal vapor incinerator, catalytic vapor incinerator, flare, boiler, process heater, condenser, or carbon adsorption system, and use test data to determine the organic removal efficiency or the total organic compound concentration, submit a performance test plan as specified in 264.1035(b)(3)				
V-7	270.24(d)		Documentation of compliance with 264.1033, including:				
V-8	270.24(d)(1)		List of references and sources to prepare the documentation				
V-9	270.24(d)(2)		Records, including dates, of each compliance test as req. by 264.1033(k)				

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					YES/NO/NA	YES/NO/NA	
V-10	270.24(d)(3)		Design analysis, specifications, drawings, schematics, and piping and instrumentation diagrams (260.11) or other acceptable engineering texts presenting basic control device design information. Must address the vent stream characteristics and control device operation parameters as specified in 264.1035(b)(4)(iii)				
V-11	270.24(d)(4)		A statement signed and dated, certifying that the operating parameters in design represent the conditions when the HW management unit would be operating at the highest capacity.				
V-12	270.24(d)(5)		A statement signed and dated, certifying that the control device is designed to operate at a minimum 95 weight percent efficiency unless the total organic emission limits of 264.1032(a) can be attained by a control device involving vapor recovery less than 95 weight percent efficiency				
<b>SPECIFIC PART B INFORMATION REQUIREMENTS FOR EQUIPMENT - 270.25</b>							
Except as otherwise provided in 264.1, equipment subject to subpart BB of 264, must provide the following information:							
For each piece of equipment subject to 264 subpart BB:							
E-1	270.25(a)(1)		Equipment ID and HW management unit ID numbers				
E-2	270.25(a)(2)		Location within the facility				
E-3	270.25(a)(3)		Type of equipment				
E-4	270.25(a)(4)		Percent by weight total organics				
E-5	270.25(a)(5)		Hazardous waste state at equipment				
E-6	270.25(a)(6)		Compliance method (e.g., monthly leak detection and repair or dual mechanical seals)				

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					YES/NO/NA	YES/NO/NA	
E-7	270.25(b)		For facilities that can not timely comply with 264 subpart BB, an implementation schedule as specified in 264.1033(a)(2)				
E-8	270.25(c)		When use a control device other than a thermal vapor incinerator, catalytic vapor incinerator, flare, boiler, process heater, condenser, or carbon adsorption system, and use test data to determine the organic removal efficiency or the total organic compound concentration, submit a performance test plan as specified in 264.1035(b)(3)				
E-9	270.25(d)		Documentation of compliance with 264.1052 through 1059 containing records req. under 264.1064				
E-10	270.25(e)		Documentation of compliance with 264.1060, including:				
E-11	270.25(e)(1)		References and sources to prepare the documentation				
E-12	270.25(e)(2)		Records and dates of compliance test as req. under 264.1033(j)				
E-13	270.25(e)(3)		Design analysis, specifications, drawings, schematics, and piping and instrumentation diagrams (260.11) or other acceptable engineering texts presenting basic control device design information. Must address the vent stream characteristics and control device operation parameters as specified in 264.1035(b)(4)(iii)				
E-14	270.25(e)(4)		A statement signed and dated, certifying that the operating parameters in design represent the conditions when the HW management unit would be operating at the highest capacity.				
E-15	270.25(e)(5)		A statement signed and dated, certifying that the control device is designed to be operated at a minimum 95 weight percent efficiency				

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					YES/NO/NA	YES/NO/NA	
<b>SPECIAL PART B INFORMATION REQUIREMENTS FOR DRIP PADS - 270.26</b>							
Except as otherwise provided in 264.1, the following information must be provided:							
D-1	270.26(a)		List of hazardous wastes				
D-2	270.26(b)		Plans and engineering report as required by 264.90(b)(2) if an exemption is sought (264 subpart F, 264.90)				
D-3	270.26(c)		Plans and engineering report on the design, construction, operations, and maintenance as req. under 264.573 including as-built drawings and specs. Must address requirements of 264.571, including:				
D-4	270.26(c)(1)		Design characteristics				
D-5	270.26(c)(2)		Liner system				
D-6	270.26(c)(3)		Leakage detection system, including detection of failure or fluid accumulation				
D-7	270.26(c)(4)		Maintenance practices				
D-8	270.26(c)(5)		Collection system				
D-9	270.26(c)(6)		Control of run-on				
D-10	270.26(c)(7)		Control of run-off				
D-11	270.26(c)(8)		Removal interval of drippage/materials from the collection system and a statement demonstrating such interval be sufficient to prevent overflow				
D-12	270.26(c)(9)		Procedures and documentation of cleaning the drip pad once every 7 days				
D-13	270.26(c)(10)		Operating practices and procedures to ensure the tracking of HW and the minimization of waste off the drip pad				

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					YES/NO/NA	YES/NO/NA	
D-14	270.26(c)(11)		Procedures to ensure that treated woods are held on the drip pad until the cessation of dripage, including recordkeeping practices				
D-15	270.26(c)(12)		Provisions to ensure the collection and holding units are emptied or managed ASAP after storms				
D-16	270.26(c)(13)		If treatment is at the drip pad, state the equipment used, and the nature and quality of residuals				
D-17	270.26(c)(14)		Description of the inspection of each drip pad, including appurtenances for control of run-on and run-off, to meet 264.573				
D-18	270.26(c)(15)		A certification by a P.E. that the drip pad design meets 264.573(a) through (f)				
D-19	270.26(c)(16)		Removal of residues/contaminants at closure to meet 264.575(a). Compliance plan as req. under 264.310(a) and (b) for non-removal waste after closure. This information should be included in the closure and post-closure plans under 270.14(b)(13)				

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<p><b>APPLICATION REVIEW CHECKLIST</b></p> <p><b>LAND PROTECTION DIVISION HAZARDOUS WASTE PROGRAM</b></p> <p><b>OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY</b></p>	<p>Facility Name: _____</p> <p>Facility ID No.: _____ ODEQ Permit No.: _____ Reference No.: _____</p> <p>Application Type: _____ Date: _____ (New/Modify/Renewal)</p>	<p>40 CFR 264 Subpart J <u>TANKS</u></p>
	<p>Administrative Reviewer: _____ Start Date: _____ Completion Date: _____</p> <p>Technical Reviewer: _____ Start Date: _____ Completion Date: _____</p> <p>Issuance Deadline: _____</p>	<p>ODEQ Form Number XXX - XXX</p> <p>Shaded areas for ODEQ use only</p>

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					YES/NO/NA	YES/NO/NA	
<b>APPLICABILITY - 264.190</b>							
To all facilities that use tank systems for storing or treating hazardous waste, except as in (a), (b), and (c), of 264.1.							
TT-1	264.190(a)		Tank systems that contain no free liquid, located inside a building and on an impervious floor are exempted from 264.193. Method 9095 (Paint Filter Liquids Test) to demonstrate free liquids.				
TT-2	264.190(b)		Tank systems including sumps that serve as secondary containment exempted from 264.193(a)				
TT-3	264.190(c)		Tanks, sumps used in conjunction with drip pads must meet requirements of this subpart				
<b>ASSESSMENT OF EXISTING TANK SYSTEM'S INTEGRITY - 294.191</b>							
TT-4	264.191(a)		For each tank system without secondary containment, the facility must determine the tank system is not leaking or unfit to use. Except as in paragraph (c) of this section, must have an integrity assessment (270.11(d)) by an independent PE by 1/12/88				
TT-5	264.191(b)		Assessment showing the tank system is adequately designed, sufficiently strong, and compatible with wastes such that it will not fail. The assessment must contain:				
TT-6	264.191(b)(1)		Design standards for tanks and ancillary equipment				
TT-7	264.191(b)(2)		Hazardous characteristics of waste handled				
TT-8	264.191(b)(3)		Existing corrosion protection				
TT-9	264.191(b)(4)		Age of tank				

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ITEM #	FEDERAL REGULATIONS 40 CFR	STATE REGULATIONS OAC 252:205	GENERAL DESCRIPTION	INFO LOCATION	ADMIN. COMPLETE	TECHNICALLY COMPLETE	REMARKS
					YES/NO/NA	YES/NO/NA	
TT-10	264.1919b)(5)		Results of a leak test, internal inspection, or integrity examination such that:  (1) For non-enterable underground tanks, must account the effects of temperature variations, tank end deflection, vapor pockets, and water table effects, and  (2) For other than non-enterable underground tanks and ancillary equipment, must include either a leak test or an integrity examination certified by an independent P.E. that addresses cracks, leaks, corrosion and erosion				
TT-11	264.191(c)		For wastes that become hazardous after July 14, 1986, must conduct assessment within 12 months				
TT-12	264.191(d)		Tanks unfit to be used as result of paragraph (a) of this section, must comply with 264.196				
<b>DESIGN AND INSTALLATION OF NEW TANK SYSTEMS AND COMPONENTS - 264.192</b>							
TT-13	264.192(a)		The facility must submit a written assessment, by an independent P.E., attesting that the tank system has adequate foundation, support, seams, connection, pressure controls, structural integrity, compatibility with wastes, that it will not fail. Must include:				
TT-14	264.192(a)(1)		Design standards				
TT-15	264.192(a)(2)		Hazardous characteristics				

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					YES/NO/NA	YES/NO/NA	
TT-16	264.192(a)(3)		<p>For tank systems in contact with soil or water, a corrosion expert's determination:</p> <p>(1) Factors affecting potential for corrosion:</p> <ul style="list-style-type: none"> <li>a. Soil moisture</li> <li>b. Soil pH</li> <li>c. Soil sulfides</li> <li>d. Soil resistivity</li> <li>e. Structure to soil potential</li> <li>f. Influence of nearby underground metals structures</li> <li>g. Existence of stray electric current</li> <li>h. Existing corrosion protection measures</li> </ul> <p>(2) Type and degree of external corrosion protection:</p> <ul style="list-style-type: none"> <li>a. Corrosion-resistant material</li> <li>b. Corrosion-resistant coating</li> <li>c. Electrical isolation devices</li> </ul>				
TT-17	264.192(a)(4)		Measures to protect tank systems from vehicular traffic damage				
TT-18	264.192(a)(5)		<p>Design considerations:</p> <ul style="list-style-type: none"> <li>(i) Tank foundation</li> <li>(ii) Anchor system</li> <li>(iii) Frost heave</li> </ul>				

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					YES/NO/NA	YES/NO/NA	
TT-19	264.192(b)		Proper handling procedures during installation. An independent P.E. or a qualified installation inspector must inspect: (1) Weld breaks (2) Punctures (3) Scrapes of protective coatings (4) Cracks (5) Corrosion (6) Other damage  Deficiencies must be remedied before covered, enclosed, or placed in use.				
TT-20	264.192(c)		Backfill material must be noncorrosive, porous, homogenous, and supportive.				
TT-21	264.192(d)		Test for tightness. Deficiencies must be remedied before covered, enclosed, or placed in use.				
TT-22	264.192(e)		Ancillary equipment must be supported and protected.				
TT-23	264.192(f)		Must provide corrosion protection, as in paragraph (a)(3) of this section.				
TT-24	264.192(g)		Must keep record of all certifications, also as required in 270.11(d)				
<b>CONTAINMENT AND DETECTION OF RELEASES - 264.193</b>							
TT-25	264.193(a)		Requirements to have secondary containment, except as provided in paragraphs (f) or (g) of this section:				

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					YES/NO/NA	YES/NO/NA	
TT-26	264.193(a)(1)		For new systems prior to putting into service				
TT-27	264.193(a)(2)		For existing tank systems storing F020 through F027, within 2 years after 1/12/87				
TT-28	264.193(a)(3)		For existing tank systems with documented age, within 2 years after 1/12/87, or 15 years, whichever later				
TT-29	264.193(a)(4)		For existing tank systems with no documented age, within 8 years of 1/12/87; but if facility is more than 7 years, within 2 years after 1/12/87 or facility reaches 15 years, whichever later				
TT-30	264.193(a)(5)		For tank systems that store or treat materials that become hazardous waste subsequent to 1/12/87, within the period required in paragraphs (a)(1) to (a)(4) of this section, except that the date that the material becomes a hazardous waste must be used in place of 1/12/87.				
TT-31	264.193(b)		Secondary containment systems must be:				
TT-32	264.193(b)(1)		Designed, installed, and operated to prevent migration to the environment				
TT-33	264.193(b)(2)		Capable of detecting and collecting releases				
TT-34	264.193(c)		To meet paragraph (b) of this section above, the secondary containment systems must be:				
TT-35	264.193(c)(1)		Constructed of materials compatible with wastes and sufficient strength				
TT-36	264.193(c)(2)		Placed on sound foundation				
TT-37	264.193(c)(3)		Provided a leak detection system to detect leak within 24 hrs.				
TT-38	264.193(c)(4)		Sloped to remove liquids				

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					YES/NO/NA	YES/NO/NA	
TT-39	264.193(d)		Secondary containment for tanks must include one or more:				
TT-40	264.193(d)(1)		A liner				
TT-41	264.193(d)(2)		A vault				
TT-42	264.193(d)(3)		A double-walled tank, or				
TT-43	264.193(d)(4)		An approved equivalent device				
TT-44	264.193(e)		In addition to paragraphs (b), (c), and (d) of this section, the secondary containment systems must satisfy:				
TT-45	264.193(e)(1)		External liner systems must:  (1) Contain 100% of the largest tank's capacity  (2) Prevent run-on or infiltration. Additional capacity to hold 25-year, 24-hour rainfall event  (3) Have no cracks and gaps  (4) Completely surround the tank				

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					YES/NO/NA	YES/NO/NA	
TT-46	264.193(e)(2)		Vault systems must: (1) Contain 100% of the largest tank's capacity (2) Prevent run-on or infiltration. Additional capacity to hold 25-year, 24-hr rainfall event (3) Have water stops at all joints (4) Have an impermeable interior coating or lining (5) Protect ignition vapors, if wastes meet: a. Ignitability, 262.21 b. Reactivity, 262.21 (6) Have an external moisture barrier				
TT-47	264.193(e)(3)		Double-walled tanks must: (i) Be an integral structure (ii) Be protected from corrosion (iii) Have a continuous leak detection system to detect releases within 24 hours				

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					YES/NO/NA	YES/NO/NA	
TT-48	264.193(f)		Ancillary equipment must have secondary containment as req. in paragraphs (b) and (c) of this section, except:  (1) Visually inspected daily above-ground piping  (2) Visually inspected daily welded flanges, joints, and connection  (3) Visually inspected daily sealless pumps and valves  Visually inspected daily pressurized above-ground piping systems with automatic shut off devices				
TT-49	264.193(g)		Variance from the req. of this section as a result of a demonstration				
TT-50	264.193(g)(1)		In deciding whether to grant a variance based on protection of ground and surface waters, the agency will consider:  (i) Nature and quantity of wastes  (ii) Proposed design  (iii) Hydrogeology  (iv) Other factors				
TT-51	264.193(g)(2)		To decide whether to grant a variance based on no potential hazard, the agency will consider:  (4) Adverse effects on ground and surface waters and land:  a. Characteristics of wastes  b. Hydrogeology  c. Human health risk  d. Damage to wildlife, crops, vegetation, and physical structures				

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					YES/NO/NA	YES/NO/NA	
(cont.)			<p>e. Persistence and permanence</p> <p>(5) Adverse effects of a release on groundwater quality:</p> <p>a. Quality, quantity, and direction of groundwater flow</p> <p>b. Proximity and withdrawal rates of groundwater users</p> <p>c. Current and future uses</p> <p>d. Existing groundwater quality</p> <p>(6) Adverse effects of a release on surface water quality:</p> <p>a. Quality, quantity, and direction of surface water flow</p> <p>b. Rainfall patterns</p> <p>c. Proximity of tank systems to surface water</p> <p>d. Current and future uses of surface water and any water quality standards</p> <p>e. Existing quality of surface water</p> <p>(7) Adverse effects of a release on the surrounding land:</p> <p>a. Rainfall patterns</p> <p>current and future uses of surrounding land</p>				

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					Yes/No/NA	Yes/No/NA	
TT-52	264.193(g)(3)		<p>Facility with a granted variance in accordance with paragraph (g)(1) of this section, when a release has occurred but not beyond the control zone, must:</p> <p>(8) Comply with reqs 264.196, except (d), and</p> <p>(9) Decontaminate and remove soil to:</p> <p>a. Enable the tank systems to reach the same detection capability as before the release</p> <p>b. Prevent migration of wastes to ground or surface water</p> <p>(10) If soil can not be decontaminated or removed, comply with 264.197(b)</p>				
TT-53	264.193(g)(4)		<p>Facility with a granted variance in accordance with paragraph (g)(1) of this section, when a release has occurred and migrated beyond the control zone, must:</p> <p>(11) Comply with 264.196 (a), (b), (c), and (d)</p> <p>(12) Prevent migration to water, decontaminate, and remove soil. If can not do so or the groundwater has been contaminated, must comply with 264.197(b); and</p> <p>(13) Install secondary containment if repair, replace, or reinstall the tank systems</p>				
TT-54	264.193(h)		Procedures when requesting for a variance from secondary containment				

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					YES/NO/NA	YES/NO/NA	
TT-55	264.193(h)(1)		Must notify in writing according to the following schedule:  For existing tank systems, at least 24 months prior to the date that secondary containment must be provided in accordance with paragraph (a) of this section  For new tank, at least 30 days before a contract for installation				
TT-56	264.193(h)(2)		Submit steps of demonstration and timelines. Must address paragraphs (g)(1) and (2) of this section				
TT-57	264.193(h)(3)		The demonstration must be completed within 180 days after notification to conduct demonstration				
TT-58	264.193(h)(4)		If a variance is granted, must construct and operate as demonstrated				
TT-59	264.193(i)		All tank systems w/o secondary containment must comply with the following:				
TT-60	264.193(i)(1)		For non-entered underground tanks, a leak test as 264.191(b)(5) must be conducted annually				
TT-61	264.193(i)(2)		For other than non-entered underground tanks, must conduct a leak test as in paragraph (i)(1) of this section or a schedule and procedure for an overall assessment				
TT-62	264.193(i)(3)		For ancillary equipment, a leak test must be conducted annually				
TT-63	264.193(i)(4)		The facility must keep record of the assessments conducted according to paragraphs (i)(1) through (i)(3) of this section				
TT-64	264.193(i)(5)		The facility must comply with 264.196 when leaking				
GENERAL OPERATING REQUIREMENTS - 264.194							

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					YES/NO/NA	YES/NO/NA	
TT-65	264.194(a)		Hazardous wastes or treatment reagents must not be placed in a tank system if they cause adverse effects				
TT-66	264.194(b)		The facility must use appropriate controls and practices to prevent spillage, including:				
TT-67	264.194(b)(1)		Spill prevention controls				
TT-68	264.194(b)(1)		Overfill prevention controls				
TT-69	264.194(b)(1)		Maintenance of adequate freeboard				
TT-70	264.194(c)		The facility must comply with 264.196 if a leak or spill occurs				
<b>INSPECTIONS - 264.195</b>							
TT-71	264.195(a)		The facility must develop and follow a schedule and procedure for inspection of overfill controls				
TT-72	264.195(b)		The facility must inspect each operating day:				
TT-73	264.195(b)(1)		The aboveground portions				
TT-74	264.195(b)(2)		Data gathered from monitoring and leak detection equipment				
TT-75	264.195(b)(3)		The construction materials and surrounding areas				
TT-76	264.195(c)		The facility must inspect the cathodic protection system:				
TT-77	264.195(c)(1)		Proper operation must be confirmed within six months after installation and annually thereafter; and				
TT-78	264.195(c)(2)		Impressed current must be inspected at least bi-monthly				
TT-79	264.195(d)		The facility must document records of inspection as req by paragraphs (a) through (c) of this section				

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					YES/NO/NA	YES/NO/NA	
<b>RESPONSE TO LEAKS OR SPILLS AND DISPOSITION OF LEAKING OR UNFIT-FOR-USE SYSTEMS - 264.196</b> A tank system unfit for use must be removed from service immediately and must satisfy:							
TT-80	264.196(a)		Cessation of use; prevent flow or addition of wastes				
TT-81	264.196(b)		Removal of wastes from tank system or secondary containment system				
TT-82	264.196(b)(1)		If the release was from the tank system, must remove wastes, within 24 hours, to allow inspection and repair				
TT-83	264.196(b)(2)		If the release was to the secondary containment system, all releases must be removed within 24 hours				
TT-84	264.196(c)		Containment of visible releases to the environment. Must conduct visual inspection:				
TT-85	264.196(c)(1)		Prevent further migration				
TT-86	264.196(c)(2)		Remove and properly dispose of any contamination				
TT-87	264.196(d)		Notification, reports				
TT-88	264.196(d)(1)		Any releases to the environment except as in paragraph (d)(2) of this section must be reported within 24 hours				
TT-89	264.196(d)(2)		Exemption, if:  Less than or equal to 1 pound  Immediately contained and cleaned up				

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					YES/NO/NA	YES/NO/NA	
TT-90	264.196(d)(3)		Report within 30 days of detection, including: (i) Likely route of migration (ii) Characteristics of the surrounding soil (iii) Results of any monitoring or sampling (iv) Proximity to downgradient drinking water, surface water and populated areas; and (v) Description of response actions				
TT-91	264.196(e)		Provision of secondary containment, repair, or closure				
TT-92	264.196(e)(1)		Unless the facility satisfies paragraphs (e)(2) through (4) of this section, must be closed in accordance with 264.197				
TT-93	264.196(e)(2)		If the release does not damage the integrity of the system, the facility may return the system to service after clean up and repairs				
TT-94	264.196(e)(3)		If the release from the primary to the secondary, the system must be repaired prior returning to service				
TT-95	264.196(e)(4)		If the release from a system without a secondary containment, the facility must replace it with a secondary containment as req in 264.193 before returning to service, unless the portion is aboveground that can be inspected visually				
TT-96	264.196(f)		Certification of major repairs must be submitted within 7 days after returning the tank system to use				
<b>CLOSURE AND POST-CLOSURE CARE - 264.197</b>							
TT-97	264.197(a)		Clean close. The closure plan, closure activities, cost estimates, and financial responsibility must meet requirements in G and H of this part				

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					YES/NO/NA	YES/NO/NA	
TT-98	264.197(b)		Close in place. Perform post closure requirements as in 264.310, and G and H of this part				
TT-99	264.197(c)		Tank systems without secondary containment that meet 264.193(b) through (f) and no variance granted, then:				
TT-100	264.197(c)(1)		The closure plan must include both a plan for complying with paragraph (a) and a contingent plan complying with paragraph (b) of this section				
TT-101	264.197(c)(2)		A contingent post-closure plan for complying with paragraph (b) of this section must be submitted as a part of the permit application				
TT-102	264.197(c)(3)		Total cost estimate must be inclusive of all plans				
TT-103	264.197(c)(4)		Financial assurance must be based on paragraph (c)(3) of this section				
TT-104	264.197(c)(5)		For tank systems that are to be considered as landfill, must meet all requirements for landfills under G and H of this part				
<b>SPECIAL REQUIREMENTS FOR IGNITABLE OR REACTIVE WASTES - 264.198</b>							
TT-105	264.198(a)		Ignitable or reactive waste must not be placed in tank systems, unless:				
TT-106	264.198(a)(1)		The waste is treated, so that: (vi) The resulting mixture does not meet the definitions of ignitable or reactive; and (vii) Section 264.17(b) is complied with; or				
TT-107	264.198(a)(2)		The waste is stored or treated in such a way that it does not ignite or react; or				
TT-108	264.198(a)(3)		The tank system is used solely for emergency				

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					YES/NO/NA	YES/NO/NA	
TT-109	264.198(b)		The facility must comply with all the distance regulations in Tables 2-1 through 2-6 of the National Fire Protection Association's "Flammable and Combustible Liquid Code"				
SPECIAL REQUIREMENTS FOR INCOMPATIBLE WASTES - 264.199							
TT-110	264.199(a)		Must not be placed in the same tank, unless 264.17(b) is complied with				
TT-111	264.199(b)		Hazardous wastes must not be placed in a tank system that has not been decontaminated and that previously held an incompatible waste, unless 264.17(b) is complied with				
TT-112		SUBCHAPTER 19 PART 5	TANK AND CONTAINER RECYCLERS				

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					YES/NO/NA	YES/NO/NA	
TT-113		19-29	<p><b>Applicability</b></p> <p>(14) This part applies to facilities which receive tanks or containers from off-site for cleaning or reconditioning which are empty as described at 40 CFR 261.7 and which contain a chemical residue. Tanks or containers hold a chemical residue if such residue is visible and/or the tank or container requires cleaning to assure that it is free of residue.</p> <p>(15) Containers as described in 40 CFR 261.7 are assumed to contain a chemical residue until processed by the receiving facility to assure that such units are ready for resale.</p> <p>(16) This part does not apply to:</p> <p>(17) Facilities permitted pursuant to 40 CFR 264;</p> <p>(18) Facilities which only receive containers or tanks for filling with product or waste without on-site cleaning or reconditioning; or,</p> <p>(19) Companies, their affiliates and subsidiaries which receive back only their containers and, as applicable:</p> <p>a. Remove residues of unused commercial chemical products for use at their facilities;</p> <p>b. Remove residues and manage such residues and wash wastes as hazardous or non-hazardous solid waste as determined per 40 CFR 261; or,</p> <p>c. Treat removed residues and wash wastes in units permitted pursuant to sections 402 and 307(b) of the Clean Water Act.</p>				

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					YES/NO/NA	YES/NO/NA	
TT-114		19-30	<b>Incidents</b> Facilities subject to this part shall comply with 252:205-13-1.				
TT-115		19-31	<b>Handling of tank and container residues and cleaning wash solutions</b> (a) Chemical residues and wash solutions containing chemical residues generated by cleaning or reconditioning of tanks or containers shall be evaluated in accordance with 40 CFR 261 to determine if they are to be handled as HW or as non-hazardous solid wastes. (b) Chemical residues and wash solutions containing chemical residues generated by cleaning or reconditioning of tanks and containers are not exempt from 252:20519-31(a) by 40 CFR 261.7. However, no HW listings in 40 CFR 261 Subpart D shall apply to residues removed from containers regulated pursuant to this part. Wastes generated from using solvents listed in 40 CFR 261.31 during the cleaning or reconditioning process and which meet the listing definition are HW. (c) As determined, the following shall apply: (1) Title 40 CFR 261-279 and OAC 252:205 shall apply to residues removed from containers regulated pursuant to this part unless exempted therein (e.g., exclusions for waste treated under §§ 402 and 307(b) of the Clean Water Act); however, the exemption found at 261.7 is modified pursuant to this part (2) For all non-hazardous solid waste, the generator is not exempt from applicable Oklahoma Regulations as specified by OAC 252:205.				

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					YES/NO/NA	YES/NO/NA	
TT-116		19-32	<p><b>Storage Requirements</b></p> <p>(1) Facilities regulated pursuant to this part may not speculatively accumulate, as defined at 40 CFR 261.1(c)(8), tanks or containers awaiting reconditioning. Tanks and containers which have not completed the full cleaning or reconditioning process must be so marked or placed into an area so marked and stored separately from containers or tanks which have been cleaned or reconditioned.</p> <p>(2) All tanks and containers shall be stored under cover or in a manner which will prevent the accumulation of precipitation in the tank or container or release to the environment of chemical residue. Any precipitation which may accumulate shall be considered a chemical residue requiring handling as described in 252:205-19-31.</p> <p>(3) All tanks and containers shall be stored in such a manner that visual inspections can determine if spillage has occurred.</p> <p>(4) Tanks and containers shall be inspected weekly for compliance with this section.</p>				

Facility Name \_\_\_\_\_  
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ITEM #	FEDERAL REGULATIONS 40 CFR	STATE REGULATIONS OAC 252:205	GENERAL DESCRIPTION	INFO LOCATION	ADMIN. COMPLETE	TECHNICALLY COMPLETE	REMARKS
					YES/NO/NA	YES/NO/NA	
TT-117		19-33	<p><b>Notification Requirements</b></p> <p>(1) Facilities shall notify the ODEQ of activities regulated pursuant to this part in the following manner:</p> <ul style="list-style-type: none"> <li>a. Provide a general description of the site utilization and processes; and,</li> <li>b. Provide a general description of how processes and activities will be conducted in a manner that minimizes releases to soils, air, and water.</li> </ul> <p>(b) Facilities in operation on the effective date of this Part must submit the information required by 252:205-19-33(a) no later than January 1, 1999. New facilities must submit the information required by 252:205-1933(a) prior to initiation of cleaning or reconditioning operations. Facilities shall submit a new notification to the ODEQ if operations significantly change from those described in the original notification. This new notification must be submitted prior to making significant changes in operations.</p>				

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ITEM #	FEDERAL REGULATIONS 40 CFR	STATE REGULATIONS OAC 252:205	GENERAL DESCRIPTION	INFO LOCATION	ADMIN. COMPLETE	TECHNICALLY COMPLETE	REMARKS
					YES/NO/NA	YES/NO/NA	
TT-118		19-34	<p><b>Recordkeeping</b></p> <p>(a) Facilities regulated pursuant to this part must maintain the following records on-site:</p> <p>(1) Documentation of waste determinations and analyses, as appropriate, for HW generated;</p> <p>(2) Records in sections performed pursuant to 252:205-19-32(d);</p> <p>(3) Records of remedial actions performed on-site in accordance with 252:205-13-1; and,</p> <p>(4) Records demonstrating that the facility is not speculatively accumulating under 252:205-19-32(a).</p> <p>(a) Records required by paragraph 252:205-19-34(a) shall be kept for a period of three (3) years.</p>				

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<p style="text-align: center;"><b>APPLICATION REVIEW CHECKLIST</b></p> <p style="text-align: center;"><b>LAND PROTECTION DIVISION HAZARDOUS WASTE PROGRAM</b></p>  <p style="text-align: center;"><b>OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY</b></p>	<p>Facility Name: _____</p> <p>Facility ID No.: _____ ODEQ Permit No.: _____ Reference No.: _____</p> <p>Application Type: _____ Date: _____ (New/Modify/Renewal)</p>	<p>40 CFR 264 Subpart I <u>CONTAINERS</u></p>
<p>Administrative Reviewer: _____ Start Date: _____ Completion Date: _____</p> <p>Technical Reviewer: _____ Start Date: _____ Completion Date: _____</p> <p>Issuance Deadline: _____</p>	<p style="text-align: center;">ODEQ Form Number XXX - XXX</p>	<p>Shaded areas for ODEQ use only</p>

ITEM #	FEDERAL REGULATIONS 40 CFR	STATE REGULATIONS OAC 252:205	GENERAL DESCRIPTION	INFO LOCATION	ADMIN. COMPLETE	TECHNICALLY COMPLETE	REMARKS
					YES/NO/NA	YES/NO/NA	
			(CC-1) APPLICABILITY - 264.170 To all facilities that store containers of hazardous waste (HW), except as 264.1 provides otherwise.				
			(CC-2) CONDITION OF CONTAINERS - 264.171 Must be in good condition. Transfer waste if otherwise.				

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ITEM #	FEDERAL REGULATIONS 40 CFR	STATE REGULATIONS OAC 252.205	GENERAL DESCRIPTION	INFO LOCATION	ADMIN. COMPLETE	TECHNICALLY COMPLETE	REMARKS
					YES/NO/NA	YES/NO/NA	
(CC-3) COMPATIBILITY OF WASTE WITH CONTAINERS - 264.172 Containers made of or lined with materials compatible with the stored wastes.							
MANAGEMENT OF CONTAINERS - 264.173							
CC-4	264.173(a)		Containers must always be closed during storage.				
CC-5	264.173(b)		Handle containers in a manner to prevent rupture or leak.				
(CC-6) INSPECTION - 264.174 At least weekly to look for leakage or any other deterioration or failure.							
CONTAINMENT - 264.175							
CC-7	264.175(a)		Containment system required as under (b), or exception as in (c).				
CC-8	264.175(b)		Containment system must be designed and operated as follows:				
CC-9	264.175(b)(1)		The base must be without cracks or gaps and impervious to contain accidental releases until collection;				
CC-10	264.175(b)(2)		Designed to drain liquid or containers must be protected from contacting with liquid;				
CC-11	264.175(b)(3)		The containment volume is the greater of the 10% of the total volume of containers or the volume of the largest container. <i>(This volume is not needed if containers do not contain free liquids);</i>				
CC-12	264.175(b)(4)		Prevention of run-on;				

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					YES/NO/NA	YES/NO/NA	
CC-13	264.175(b)(5)		Accidental releases must be removed timely to prevent overflow.				
CC-14	264.175(c)		Storage areas for containers with no free liquids need not comply with (b), except (d) or provided that:				
CC-15	264.175(c)(1)		The storage area is designed and operated to drain precipitation, or				
CC-16	264.175(c)(2)		Containers are protected from contacting with accumulated liquid.				
CC-17	264.175(d)		Storage areas must comply with (b) if contain the following wastes:				
CC-18	264.175(d)(1)		F020 through F023, F026, and F027.				
CC-19	264.175(d)(2)		[Reserved]				
<b>(CC-20) SPECIAL REQUIREMENTS FOR IGNITABLE OR REACTIVE WASTE - 264.176</b>							
Containers holding ignitable or reactive wastes must be located at least 50 feet from the facility's property line.							
<b>(CC-21) SPECIAL REQUIREMENTS FOR INCOMPATIBLE WASTES - 264.177</b>							
CC-22	264.177(a)		Must not be placed in the same container, unless 264.17(b) is complied with.				
CC-23	264.177(b)		HW must not be placed in an unwashed container that previously held an incompatible waste.				
CC-24	264.177(c)		Containers holding incompatible wastes must be separated and protected from nearby wastes with physical means.				

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					YES/NO/NA	YES/NO/NA	
(CC-25) CLOSURE - 264.178 Everything must be removed and decontaminated.							

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<p><b>APPLICATION REVIEW CHECKLIST</b></p> <p><b>LAND PROTECTION DIVISION HAZARDOUS WASTE PROGRAM</b></p>  <p><b>OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY</b></p>	<p>Facility Name: _____</p> <p>Facility ID No.: _____ ODEQ Permit No.: _____ Reference No.: _____</p> <p>Application Type: _____ Date: _____ (New/Modify/Renewal)</p> <hr/> <p>Administrative Reviewer: _____ Start Date: _____ Completion Date: _____</p> <p>Technical Reviewer: _____ Start Date: _____ Completion Date: _____</p> <p>Issuance Deadline: _____</p>	<p>40 CFR 264 Subpart L <u>WASTE PILES</u></p>  <p>ODEQ Form Number XXX - XXX</p> <p>Shaded areas for ODEQ use only</p>
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ITEM #	FEDERAL REGULATIONS 40 CFR	STATE REGULATIONS OAC 252:205	GENERAL DESCRIPTION	INFO LOCATION	ADMIN. COMPLETE	TECHNICALLY COMPLETE	REMARKS
					YES/NO/NA	YES/NO/NA	
APPLICABILITY - 264.250							
WP-1	264.250(a)		Applicable to facility that stores/treats hazardous wastes in piles, except as 264.1				

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					YES/NO/NA	YES/NO/NA	
WP-2	264.250(b)		Not applicable to waste piles (WPs) that are closed with wastes in place (see req. of Subpart N - Landfills)				
WP-3	264.250(c)		Any WP, which is under a structure so that neither run-off nor leachate is generated, is not subject to 264.251 or Subpart F, provided that:				
WP-4	264.250(c)(1)		Free liquids are not placed in the pile;				
WP-5	264.250(c)(2)		The pile is protected from run-on				
WP-6	264.250(c)(3)		Dispersal of waste by wind controlled by means other than wetting; and				
WP-7	264.250(c)(4)		No leachate is generated through decomposition or other reactions				
<b>DESIGN AND OPERATING REQUIREMENTS - 264.251</b>							
WP-8	264.251(a)		A WP must have:				
WP-9	264.251(a)(1)		<p>A liner designed, constructed, and installed to prevent migration of wastes out the WP during the life of the WP (incl. the closure period). The liner must be:</p> <ul style="list-style-type: none"> <li>(i) Constructed of materials with chemical properties, sufficient strength and thickness to prevent failure;</li> <li>(ii) Placed upon a sound foundation; and</li> <li>(iii) Installed to cover all surroundings that are likely to be in contact with the wastes or leachate</li> </ul>				

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					YES/NO/NA	YES/NO/NA	
WP-10	264.251(a)(2)		A leachate collection and removal system (LCRS) immediately above the liner to collect and remove leachate from the pile. Leachate depth over the liner does not exceed 30 cm (one foot). The LCRS must be:  (i) Constructed of materials that are: (A) Chemical resistant; and (B) Of sufficient strength and thickness  (ii) Designed and operated to function without clogging through the closure period				
WP-11	264.251(b)		Exemption from the requirements of paragraph (a) of this section based on a demonstration by the facility. Considerations to grant an exemption:				
WP-12	264.251(b)(1)		The nature and quantity of wastes				
WP-13	264.251(b)(2)		The proposed alternate design and operation				
WP-14	264.251(b)(3)		The hydrogeologic setting				
WP-15	264.251(b)(4)		All other factors relating to leachate and groundwater				
WP-16	264.251(c)		New WPs after 1/29/92 must have two or more liners and a leachate collection and removal system above and between such liners				

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ITEM #	FEDERAL REGULATIONS 40 CFR	STATE REGULATIONS OAC 252:205	GENERAL DESCRIPTION	INFO LOCATION	ADMIN. COMPLETE	TECHNICALLY COMPLETE	REMARKS
					YES/NO/NA	YES/NO/NA	
WP-17	264.251(c)(1)		<p>(i) The liner system must include:</p> <p>(A) A top liner is of materials to prevent migration of hazardous wastes into such liner during the active life and post closure care period</p> <p>(B) A composite bottom liner consisting of two components: a geomembrane and a 3-foot compacted soil with hydraulic conductivity of no more than <math>1 \times 10^{-7}</math> cm/sec.</p> <p>(ii) The liners must comply with paragraphs (a)(1)(i), (ii), and (iii) of this section</p>				
WP-18	264.251(c)(2)		The leachate collection and removal system (LCRS) immediately above the top liner must be functional during the active life and post-closure period. Leachate depth over the liner must not exceed 30 cm (1 foot). LCRS must comply with paragraphs (c)(3)(iii) and (iv) of this section				

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ITEM #	FEDERAL REGULATIONS 40 CFR	STATE REGULATIONS OAC 252:205	GENERAL DESCRIPTION	INFO LOCATION	ADMIN. COMPLETE	TECHNICALLY COMPLETE	REMARKS
					YES/NO/NA	YES/NO/NA	
WP-19	264.251(c)(3)		LCRS between the liners of a multiple systems is also a leak detection system (LDS) that must be functional during the active life and post-closure period. A leak detection system, at a minimum must be:  (i) Constructed with a bottom slope of 1% or more; (ii) Constructed of granular drainage materials with a minimum hydraulic conductivity of $1 \times 10^{-2}$ cm/sec, a minimum thickness of 12 inches; or a geonet drainage materials with a minimum transmissivity of $3 \times 10^{-5}$ m <sup>2</sup> /sec; (iii) Constructed of materials with chemical resistance and strength; (iv) Designed and operated to minimize clogging; and (v) Constructed with sumps and liquid removal systems that are capable of measuring liquids present and removed.				
WP-20	264.251(c)(4)		The facility shall collect and remove liquids in the sumps				
WP-21	264.251(c)(5)		The leak detection system must not be adversely affected by groundwater				
WP-22	264.251(d)		Approval of alternate design or operating practices to those specified in paragraph (c) of this section, if they:				
WP-23	264.251(d)(1)		Will prevent the migration of any hazardous constituent into the environment as effectively as those in paragraph (c) of this section; and				
WP-24	264.251(d)(2)		Will detect leaks through the top liner at least as effectively				
WP-25	264.251(e)		Paragraph (c) of this section does not apply to monofills that are granted a waiver in acc. with 264.221(e)				

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ITEM #	FEDERAL REGULATIONS 40 CFR	STATE REGULATIONS OAC 252:205	GENERAL DESCRIPTION	INFO LOCATION	ADMIN. COMPLETE	TECHNICALLY COMPLETE	REMARKS
					YES/NO/NA	YES/NO/NA	
WP-26	264.251(f)		Exemption from paragraph (c) of this section for any replacement WP if:				
WP-27	264.251(f)(1)		The existing unit was constructed in acc. with RCRA 3004(o)(1)(A)(i) and (o)(5); and				
WP-28	264.251(f)(2)		The liner is functioning as designed				
WP-29	264.251(g)		A run-on control system must prevent flow onto the WP during the peak of a 25-year storm				
WP-30	264.251(h)		A run-off management system must collect water volume from a 24-hour, 25-year storm				
WP-31	264.251(i)		The holding facilities associated with the run-on and run-off control systems must be emptied expeditiously after the storm to maintain the design capacity				
WP-32	264.251(j)		Wind dispersal control				
WP-33	264.251(k)		The agency will specify other permit conditions to ensure the requirements of this section are satisfied				
<b>ACTION LEAKAGE RATE (ALR) - 264.252</b>							
WP-34	264.252(a)		The Agency shall approve an ALR for WP units subject to 264.251(c) or (d). The ALR is the maximum design flow rate that LDS can remove without the fluid head on the bottom liner exceeding 1 foot. The ALR must include an adequate safety margin				

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					YES/NO/NA	YES/NO/NA	
WP-35	264.252(b)		To determine if the ALR has been exceeded, the facility must convert the weekly or monthly flow rate under 264.254(c) to an average daily flow rate (gal/acre/day) for each sump. The average daily flow rate must be calculated weekly during the active life and closure period				
<b>RESPONSE ACTION - 264.253</b>							
WP-36	264.253(a)		The facility must have an approved response action plan before receiving wastes. The response action plan at a minimum as described in paragraph (b) of this section				
WP-37	264.253(b)		If the flow rate into the LDS exceeds the ALR for any sump, the facility must:				
WP-38	264.253(b)(1)		Notify the Agency in writing within 7 days				
WP-39	264.253(b)(2)		Submit a written assessment to the Agency within 14 days as to the amount of liquids, sources, location, size, cause, and short-term actions taken and planned				
WP-40	264.253(b)(3)		Determine the location, size, and cause of any leak				
WP-41	264.253(b)(4)		Determine whether waste receipt should be ceased or curtailed, whether any waste should be removed, and whether or not the unit should be closed				
WP-42	264.253(b)(5)		Determine any short-term and long-term actions				
WP-43	264.253(b)(6)		Within 30 days after the notification, submit to the Agency the results of analyses in paragraphs (b)(3), (4), and (5) of this section, the results of actions taken and actions planned. Monthly thereafter, as long as problems still occur, the facility must submit a report summarizing the results of any remedial actions taken and actions planned				

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					YES/NO/NA	YES/NO/NA	
WP-44	264.253(c)		To make the leak and/or remediation determinations in paragraphs (b)(3), (4), and (5) of this section, the facility must:				
WP-45	264.253(c)(1)		(i) Assess the source of liquids and amount of liquids by source  (ii) Conduct a fingerprint of the liquids in the leak detection system to identify the source, location of any leaks, and the hazard and mobility of the liquid  (iii) Assess the potential impact to the environment				
WP-46	264.253(c)(2)		Document why such assessments are not needed				
<b>MONITORING AND INSPECTION - 264.254</b>							
WP-47	264.254(a)		During construction and installation, liners and cover systems must be inspected for uniformity, damage, and imperfections. Immediately after construction or installation:				
WP-48	264.254(a)(1)		Synthetic liners and covers must be inspected				
WP-49	264.254(a)(2)		Soil-based and admixed liners and covers must be inspected				
WP-50	264.254(b)		While in operation, the facility must inspect weekly and after storms for:				
WP-51	264.254(b)(1)		Deterioration, malfunctions, or improper operation of run-on and run-off control systems				
WP-52	264.254(b)(2)		Proper functioning of wind dispersal control system				
WP-53	264.254(b)(3)		Presence of leachate and proper functioning of LCRS.				

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					YES/NO/NA	YES/NO/NA	
WP-54	264.254(c)		If a facility must have an LDS under 264.251(c), the facility must record the amount of liquid removed once a week during the active life and closure period				
<b>264.255 [RESERVED]</b>							
<b>SPECIAL REQUIREMENTS FOR IGNITABLE OR REACTIVE (IR) WASTE - 264.256</b>							
IR wastes must not be placed in a WP, unless the waste and the WP satisfy all requirements of 40 CFR 268, and:							
WP-55	264.256(a)		The waste is treated before or immediately after placement in the WP so that:				
WP-56	264.256(a)(1)		The resulting waste no longer meets the definition of IR under 261.21 or 23; and				
WP-57	264.256(a)(2)		Section 264.17(b) is complied with; or				
WP-58	264.256(b)		The waste is managed to protect it from any material or conditions which may cause to ignite or react; or				
<b>SPECIAL REQUIREMENTS FOR INCOMPATIBLE WASTES - 264.257</b>							
WP-59	264.257(a)		Incompatible wastes must not be placed in the same pile				
WP-60	264.257(b)		Nearby incompatible wastes must be separated or protected by some means				
WP-61	264.257(c)		Hazardous waste must not be piled on the same base with incompatible waste, unless compliance with 264.17(b)				
<b>CLOSURE AND POST-CLOSURE CARE - 264.258</b>							

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					YES/NO/NA	YES/NO/NA	
WP-62	264.258(a)		At closure, the facility must clean close unless 261.3(d) applies.  ** The ODEQ may approved risk-based closure standards as an option for closure of a unit if requested by the facility**				
WP-63	264.258(b)		If the facility can not clean close or close to an acceptable risk-based level then the facility must perform post closure care as in acc. with 264.310 (landfills)				
WP-64	264.258(c)(1)		The facility that does not comply with liner requirements of 264.251(a)(1) and is not exempt from them acc. to 264.250(c) or 264.251(b) must:  (i) Include in the closure plan under 264.112: a plan to comply with (a) and a contingent plan to comply with (b) if not all contaminated subsoils can be removed; and  (ii) Prepare a contingent post-closure plan under 264.118 for complying with (b) if not all contaminated subsoils can be removed				
WP-65	264.258(c)(2)		Cost estimates under 264.142 and 144 for closure and post-closure must include the cost of complying with the contingent closure and post closure plans, but not the closure cost under paragraph (a) of this section				
<b>SPECIAL REQUIREMENTS FOR HAZARDOUS WASTES F020 THROUGH F027 - 264.259</b>							
WP-66	264.259(a)		Hazardous wastes F027 through F027 must not be placed in a WP unless a management plan for these wastes is approved by the Agency. Factors to be considered are:				
WP-67	264.259(a)(1)		The volume, physical, and chemical characteristics of the wastes, including the potential to migrate to the environment;				

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					YES/NO/NA	YES/NO/NA	
WP-68	264.259(a)(2)		The attenuative properties of the soils or other materials;				
WP-69	264.259(a)(3)		The mobilizing properties of other materials co-disposed with these wastes; and				
WP-70	264.259(a)(4)		The effectiveness of additional treatment, design, or monitoring techniques				
WP-71	264.259(b)		The Agency may impose additional requirements in order to reduce the possibility of migration of these wastes to the environment				

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<p><b>APPLICATION REVIEW CHECKLIST</b></p> <p><b>LAND PROTECTION DIVISION HAZARDOUS WASTE PROGRAM</b></p>  <p><b>OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY</b></p>	Facility Name: _____ Facility ID No.: _____ ODEQ Permit No.: _____ Reference No.: _____ Application Type: _____ Date: _____ (New/Modify/Renewal)	40 CFR 264 Subpart N  <b>LANDFILLS</b>
	Administrative Reviewer: _____ Start Date: _____ Completion Date: _____ Technical Reviewer: _____ Start Date: _____ Completion Date: _____ Issuance Deadline: _____	ODEQ Form Number XXX - XXX
		Shaded areas for ODEQ use only

ITEM #	FEDERAL REGULATIONS 40 CFR	STATE REGULATIONS OAC 252:205	GENERAL DESCRIPTION	INFO LOCATION	ADMIN. COMPLETE	TECHNICALLY COMPLETE	REMARKS
					YES/NO/NA	YES/NO/NA	
<b>APPLICABILITY - 264.300</b>  To all facilities that dispose of hazardous waste in landfills except as 264.1 provides otherwise							
<b>DESIGN AND OPERATING REQUIREMENTS - 264.301</b>							
LFF 1	264.301(a)		Any landfill that is not covered under paragraph (c) of this section or 265.301(a) must have a liner system:				

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					Yes/No/NA	Yes/No/NA	
LFF 2	264.301(a)(1)		<p>The liner must be designed, constructed and installed to prevent migration of wastes out of the landfill during the life of the landfill (incl. the closure period).</p> <p>The liner must be of materials that prevent wastes from migrating into the liner during the active life of the facility.</p> <p>The liner must be:</p> <ul style="list-style-type: none"> <li>(i) Constructed of materials with chemical properties, sufficient strength and thickness to prevent failure;</li> <li>(ii) Placed upon a sound foundation;</li> <li>(iii) Installed to cover all surroundings that are likely to be in contact with the wastes or leachate; and</li> </ul>				
LFF 3	264.301(a)(2)		<p>A leachate collection and removal system (LCRS) above the liner to collect and remove leachate from the landfill.</p> <p>The leachate depth over the liner must not exceed 30 cm (1 foot). The LCRS must be:</p> <ul style="list-style-type: none"> <li>(i) Constructed of materials that are:                             <ul style="list-style-type: none"> <li>(A) Chemically resistant to the waste and leachate; and</li> <li>(B) Sufficient strength and thickness to prevent failure; and</li> </ul> </li> <li>(ii) Functioned without clogging through closure.</li> </ul>				
LFF 4	264.301(b)		<p><b>Possible exemption from the requirements of paragraph (a) of this section based on a demonstration by the facility of an alternative that will prevent migration of any hazardous constituents (see 264.93) into the environment.</b></p> <p>Considerations to grant an exemption include:</p>				

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					YES/NO/NA	YES/NO/NA	
LFF 5	264.301(b)(1)		The nature and quantity of wastes;				
LFF 6	264.301(b)(2)		The proposed alternate design and operation;				
LFF 7	264.301(b)(3)		The hydrogeologic setting; and				
LFF 8	264.301(b)(4)		All other factors relating to leachate migration to the environment.				
LFF 9	264.301(c)		<b>The construction commencement of a new landfill after 1/29/92, a lateral expansion after 7/29/92, and a landfill replacement after 7/29/92 must have two or more liners and a LCRS above and between such liners.</b>  "Construction commences" is defined in 260.10 under "existing facility".				
LFF 10	264.301(c)(1)		(i) The liner system must include:  (A) A top liner made of materials (e.g. geomembrane) to prevent migration of hazardous wastes into such liner through the post closure care period;  (B) A composite bottom liner consisting of at least two components.  The upper component made of materials (e.g. geomembrane) to prevent migration of hazardous wastes into such liner through the post closure care period.  The lower component constructed of at least a 3-foot compacted soil with hydraulic conductivity of no more than $1 \times 10^{-7}$ cm/sec.  (ii) The liners must comply with paragraphs (a)(1)(i), (ii) and (iii) of this section.				

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					YES/NO/NA	YES/NO/NA	
LFF 11	264.301(c)(2)		<p>The LCRS immediately above the top liner must be designed, constructed, operated, and maintained to function through the closure care period.</p> <p>The leachate depth over the liner must not exceed 30 cm (1 foot).</p> <p>The LCRS must comply with paragraphs (3)(c)(iii) and (iv) of this section.</p>				
LFF 12	264.301(c)(3)		<p>The LCRS between the liners, and immediately above the bottom liner in the case of multiple leachate collection and removal systems, is also a leak detection system (LDS).</p> <p>This LDS must detect, collect, and remove leaks at the earliest time through all areas of top liner, likely to be exposed to waste or leachate, through the post-closure care period.</p> <p>A LDS at a minimum must be:</p> <ul style="list-style-type: none"> <li>(i) Constructed with a bottom slope of 1% or more;</li> <li>(ii) Constructed of granular drainage materials with a minimum hydraulic conductivity of <math>1 \times 10^{-2}</math> cm/sec, a minimum thickness of 12 inches; or a geonet drainage materials with a minimum transmissivity of <math>3 \times 10^{-5}</math> m<sup>2</sup>/sec;</li> <li>(iii) Constructed of materials that are chemically resistance and of sufficient strength;</li> <li>(iv) Designed and operated to minimize clogging through the post-closure care period; and</li> <li>(v) Constructed with sumps and liquid removal systems that are capable of measuring liquids present and removed, and prevent liquids from backing up into the drainage layer.</li> </ul>				

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					YES/NO/NA	YES/NO/NA	
LFF 13	264.301(c)(4)		The facility shall collect and remove liquids in the sumps.				
LFF 14	264.301(c)(5)		The leak detection system must not be adversely affected by groundwater.				
LFF 15	264.301(d)		<b>Possible approval of alternate design or operating practices to those specified in paragraph (c) of this section, if they:</b>				
LFF 16	264.301(d)(1)		Will prevent the migration of any hazardous constituent into the environment as effectively as those in paragraph (c) of this section; and				
LFF 17	264.301(d)(2)		Will detect leaks through the top liner at least as effectively.				
LFF 18	264.301(e)		<b>Possible waiver of the double liner requirement as specified in paragraph (c) of this section for any monofill, if:</b>				
LFF 19	264.301(e)(1)		The monofill contains only hazardous wastes from foundry furnace emission controls or metal casting molding sand (with toxicity characteristic D004 through D017 only); and				
LFF 20	264.301(e)(2)		(i) (A) The monofill has at least one non-leaking liner; (B) The monofill is located more than one-quarter mile from an underground source of drinking water (definition in 40 CFR 144.3); and (C) The monofill is in compliance with groundwater monitoring requirements; or (ii) Demonstration to assure that no migration of any hazardous constituent into the environment in the future.				

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					YES/NO/NA	YES/NO/NA	
LFF 21	264.301(l)		A replacement landfill unit is exempt from paragraph (c) of this section, if:				
LFF 22	264.301(f)(1)		The existing unit was constructed in compliance with Section 3004 (o)(1)(A)(i) and (o)(5) of RCRA; and				
LFF 23	264.301(f)(2)		The liner is functioning as designed.				
LFF 24	264.301(g)		The facility must design, construct, operate, and maintain a run-on control system to prevent flow during a 25-year storm peak discharge.				
LFF 25	264.301(h)		The facility must design, construct, operate, and maintain a run-off management system to handle volume from a 24-hour, 25-year storm.				
LFF 26	264.301(i)		The run-on and run-off control systems must be emptied/managed after storms to maintain the design capacity.				
LFF 27	264.301(j)		The facility must control wind dispersal of particulate matter.				
LFF 28	264.301(k)		The Agency will specify in the permit all design and operating practices that are necessary to ensure that the requirements of this section are satisfied.				
LFF 29	264.301(l)		This particular provision is applicable to the State of Alabama only.				
ACTION LEAKAGE RATE (ALR) - 264.302							

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					YES/NO/NA	YES/NO/NA	
LFF 30	264.302(a)		<p>The Agency shall approve an ALR for landfill units subject to 264.301(c) or (d).</p> <p>The ALR is the maximum design flow rate that the leak detection system can remove without the fluid head on the bottom liner exceeding 1 foot.</p> <p>The ALR must include an adequate safety margin to allow for uncertainties in the design.</p>				
LFF 31	264.302(b)		<p>To determine if the ALR has been exceeded, the facility must convert the weekly or monthly flow rate under 264.303(c) to an average daily flow rate (gal/acre/day) for each sump.</p> <p>The average daily flow rate must be calculated weekly during the active life and closure period, and monthly during the post-closure care period as under 264.303(c).</p>				
<b>MONITORING AND INSPECTION - 264.303</b>							
LFF 32	264.303(a)		<p><b>During construction and installation, liners and cover systems must be inspected for uniformity, damage, and imperfections.</b> Immediately after construction or installation:</p>				
LFF 33	264.303(a)(1)		Synthetic liners and covers must be inspected;				
LFF 34	264.303(a)(2)		Soil-based and admixed liners and covers must be inspected.				
LFF 35	264.303(b)		<p><b>While in operation, the facility must inspect weekly and after storms for:</b></p>				
LFF 36	264.303(b)(1)		Deterioration, malfunctions, or improper operation of run-on and run-off control systems;				

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					YES/NO/NA	YES/NO/NA	
LFF 37	264.303(b)(2)		Proper functioning of wind dispersal control systems;				
LFF 38	264.303(b)(3)		Leachate and proper functioning of LCRS.				
LFF 39	264.303(c)(1)		The facility required to have a LDS under 264.301(c) or (d) must record the amount of liquids removed from each sump weekly during the active and closure periods.				
LFF 40	264.303(c)(2)		<p>After the final cover is installed, must record the amount of liquids removed from each sump at least monthly.</p> <p>If the liquid level is below the pump operating level for two consecutive months, the amount of liquids in the sump must be recorded quarterly.</p> <p>If the liquid level is below the pump operating level for two consecutive quarters, the amount of liquids in the sump must be recorded semi-annually.</p> <p>If the pump operating level is exceeded on quarterly or semi-annual schedule, the facility must return to monthly schedule.</p>				
LFF 41	264.303(c)(3)		"Pump operating level" is a liquid level based on pump activation level, sump dimensions, and level that avoids backup into the drainage layer and minimizes head.				
<b>RESPONSE ACTION - 264.304</b>							
LFF 42	264.304(a)		<p>The facility subject to 264.301(c) or (d) must have an approved response action plan before receiving wastes.</p> <p>The response action plan must set forth the actions to be taken if the ALR has been exceeded.</p> <p>The response action plan at a minimum must be as described in paragraph (b) of this section.</p>				

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					YES/NO/NA	YES/NO/NA	
LFF 43	264.304(b)		If the flow rate into the leak detection system exceeds the ALR for any sump, the facility must:				
LFF 44	264.304(b)(1)		Notify the Agency in writing within 7 days;				
LFF 45	264.304(b)(2)		Submit a written assessment to the Agency within 14 days as to the amount of liquids, sources, location, size, cause, and short-term actions taken and planned;				
LFF 46	264.304(b)(3)		Determine the location, size, and cause of any leak;				
LFF 47	264.304(b)(4)		Determine whether waste receipt should cease or be curtailed, whether any waste should be removed, and whether or not the unit should be closed;				
LFF 48	264.304(b)(5)		Determine any short-term and long-term actions to mitigate leaks; and				
LFF 49	264.304(b)(6)		Within 30 days after the notification, submit to the Agency the results of analyses in paragraphs (b)(3), (4), and (5) of this section, the results of actions taken, and actions planned.  Monthly thereafter, as long as problems still occur, the facility must submit a report summarizing the results of any remedial actions taken and actions planned.				
LFF 50	264.304(c)		To make the leak and/or remediation determinations in paragraphs (b)(3), (4), and (5) of this section, the facility must:				

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					YES/NO/NA	YES/NO/NA	
LFF 51	264.304(c)(1)		(i) Assess the source of liquids and amount of liquids by source;  (ii) Conduct a fingerprint of the liquids in the leak detection system to identify the source, location of any leaks, and the hazard and mobility of the liquid; and  (iii) Assess the potential for leaks to escape to the environment.				
LFF 52	264.304(c)(2)		Document why such assessments are not needed.				
[RESERVED] - 264.305 - 264.308							
SURVEYING AND RECORD KEEPING - 264.309							
The facility must maintain the following items in the operating record required under 264.73:							
LFF 53	264.309(a)		On a map, the exact location and dimensions, including depth, of each cell with surveyed benchmarks; and				
LFF 54	264.309(b)		The contents of each cell and approximate location of each hazardous waste type within each cell.				
CLOSURE AND POST CLOSURE CARE - 264.310							
LFF 55	264.310(a)		At closure, the facility must cover the landfill or cell with a final cover designed and constructed to:				
LFF 56	264.310(a)(1)		Provide minimization of migration of liquids through the closed landfill;				
LFF 57	264.310(a)(2)		Function with minimum maintenance;				
LFF 58	264.310(a)(3)		Promote drainage and minimize erosion or abrasion of the cover;				

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					YES/NO/NA	YES/NO/NA	
LFF 59	264.310(a)(4)		Accommodate settling and subsidence so that the cover's integrity is maintained; and				
LFF 60	264.310(a)(5)		Have a permeability less than or equal to the permeability of any bottom liner system or natural subsoils present.				
LFF 61	264.310(b)		<b>After final closure, the facility must comply with post-closure requirements in 264.117 through 264.120, including maintenance and monitoring throughout the post-closure care period under 264.117. The facility must:</b>				
LFF 62	264.310(b)(1)		Maintain the integrity and effectiveness of the final cover;				
LFF 63	264.310(b)(2)		Continue to operate the LCRS until leachate is no longer detected;				
LFF 64	264.310(b)(3)		Maintain and monitor the LDS in accordance with 264.301(c)(3)(iv) and (4) and 264.303(c), and other requirements of this section;				
LFF 65	264.310(b)(4)		Maintain and monitor the groundwater monitoring system and comply with all requirements of Subpart F of 40 CFR 264;				
LFF 66	264.310(b)(5)		Prevent run-on and run-off from damaging the final cover; and				
LFF 67	264.310(b)(6)		Protect and maintain surveyed benchmarks.				
[RESERVED] - 264.311							
SPECIAL REQUIREMENTS FOR IGNITABLE OR REACTIVE (IR) WASTE - 264.312							
LFF 68	264.312(a)		<b>Except as provided in paragraph (b) of this section and 264.36, IR waste must not be placed in a landfill, unless meeting the requirements of 268, and:</b>				

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					YES/NO/NA	YES/NO/NA	
LFF 69	264.312(a)(1)		The resulting waste no longer meets the definition of IR under 40 CFR 261.21 or 23; and				
LFF 70	264.312(a)(2)		Section 264.17(b) is complied with.				
LFF 71	264.312(b)		<p>Except for prohibited wastes subject to 268 subpart D, ignitable wastes in containers may be landfilled without meeting the requirements of paragraph (a) of this section, provided the wastes are managed to be protected from any material or conditions which may cause it to ignite.</p> <p>At a minimum, ignitable wastes must be disposed in non-leaking containers;</p> <p>must be covered with soil or other non-combustible material daily; and</p> <p>must not be disposed of with other heat producing wastes.</p>				
[LFF 72] SPECIAL REQUIREMENTS FOR INCOMPATIBLE WASTES - 263.313							
Incompatible wastes, or incompatible wastes and materials, (see appendix V for examples) must not be placed in the same landfill cell, unless 264.17(b) is complied with.							
SPECIAL REQUIREMENTS FOR BULK AND CONTAINERIZED LIQUIDS - 264.314							
LFF 73	264.314(a)		<b>Bulk or non-containerized liquid waste or free liquid waste may be placed in a landfill prior to 5/8/85 only if:</b>				
LFF 74	264.314(a)(1)		The landfill has a liner and LCRS that meet 264.301(a); or				
LFF 75	264.314(a)(2)		The waste is treated/stabilized so that free liquids are no longer present, before disposal.				

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					YES/NO/NA	YES/NO/NA	
LFF 76	264.314(b)		Effective 5/8/85, the placement of bulk or non-containerized liquid hazardous waste or hazardous waste containing free liquids (whether or not sorbents have been added) in any landfill is prohibited.				
LFF 77	264.314(c)		To demonstrate the absence or presence of free liquid must use Method 9095 (Paint Filter Liquids Test).				
LFF 78	264.314(d)		Containers holding free liquids must not be placed in a landfill unless:				
LFF 79	264.314(d)(1)		All free-standing liquid: (i) Has been removed by decanting or other methods; (ii) Has been mixed with sorbent or solidified; or (iii) Has been otherwise eliminated; or				
LFF 80	264.314(d)(2)		The container is very small, such as ampule; or				
LFF 81	264.314(d)(3)		The container is designed to hold free liquids for use other than storage, such as battery; or				
LFF 82	264.314(d)(4)		The container is a lab pack as defined in 264.316 and is disposed of as in 264.316.				
LFF 83	264.314(e)		<b>Sorbents must be nonbiodegradable.</b> Nonbiodegradable sorbents are materials described in paragraph (e)(1) of this section; materials that pass one of the tests in paragraph (e)(2) of this section; or materials that are determined by EPA to be nonbiodegradable through the part 260 petition process.				

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					YES/NO/NA	YES/NO/NA	
LFF 84	264.314(e)(1)		Nonbiodegradable sorbents. (i) Inorganic materials, and elemental carbon (e.g., clays, kaolinite, lime, silica, ashes, cement kiln dust, activated carbon/charcoal, etc.); or (ii) High molecular weight synthetic polymers (e.g., polyethylene, HDPE, polypropylene, tertiary butyl copolymers, etc.). This does not include polymers derived from biological material or polymers designed to be degradable; or (iii) Mixtures of these nonbiodegradable materials.				
LFF 85	264.314(e)(2)		Tests for nonbiodegradable sorbents. (i) ASTM Method G21-70 (1984a) (ii) ASTM Method G22-76 (1984b)				
LFF 86	264.314(f)		<b>Effective 11/8/85, the placement of any non-hazardous waste liquid in a landfill is prohibited unless the facility demonstrates that:</b>				
LFF 87	264.314(f)(1)		The only alternative is placement in a landfill or unlined surface impoundment that is anticipated to contain hazardous waste; and				
LFF 88	264.314(f)(2)		Placement in such facility's landfill will not present a risk of contamination of any underground source of drinking water (defined in 40 CFR 144.3)				
<b>SPECIAL REQUIREMENTS FOR CONTAINERS - 264.315</b> Unless they are very small, such as an ampule, containers must be either:							
LFF 89	264.315(a)		<b>At least 90% full when placed in landfill; or</b>				

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					YES/NO/NA	YES/NO/NA	
LFF 90	264.315(b)		Crushed, shredded, or reduced in volume to the maximum extent before burial in the landfill.				
<p><b>DISPOSAL OF SMALL CONTAINERS OF HAZARDOUS WASTE IN OVERPACKED DRUMS (LAB PACKS) - 264.316</b></p> <p>May be placed in a landfill if the following requirements are met:</p>							
LFF 91	264.316(a)		<p><b>Hazardous waste must be packaged in non-leaking inside containers.</b></p> <p>The inside containers must not react, be decomposed by, or be ignited by the contained waste.</p> <p>Inside containers must be tightly and securely sealed.</p> <p>The inside containers must be the size and type specified in the Department of Transportation (DOT) hazardous materials regulations (49 CFR 173, 178, and 179) if applicable.</p>				
LFF 92	264.316(b)		<p><b>The inside containers must be overpacked in an open head DOT-spec metal shipping container (49 CFR 178 and 179) of no more than 110-gallon capacity and surrounded by sufficient nonbiodegradable sorbent material (264.314(e)).</b></p> <p><b>The metal outer container must be full after it has been packed with inside containers and sorbent material.</b></p>				
LFF 93	264.316(c)		<b>The sorbent material used must not react, be decomposed by, or be ignited by the contained waste in accordance with 264.17(b).</b>				
LFF 94	264.316(d)		<b>Incompatible wastes, as defined in 260.10, must not be placed in the same outside container.</b>				

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					YES/NO/NA	YES/NO/NA	
LFF 95	264.316(e)		<p>Reactive wastes, except cyanide- or sulfide- bearing wastes as defined in 261.23(a)(5) of this chapter, must be treated to be non-reactive prior to packaging in accordance with paragraphs (a) through (d) of this section.</p> <p>Cyanide- and sulfide- bearing reactive waste may be packed in accordance with paragraphs (a) through (d) of this section without first being treated or rendered non-reactive.</p>				
LFF 96	264.316(f)		<p>Such disposal is in compliance with part 268.</p> <p>Facility that incinerates lab packs according to 268.42(c)(1) may use fiber drums instead of metal outer containers.</p> <p>Such fiber drums must meet DOT spec (49 CFR 173.12) and be overpacked according to paragraph (b) of this section.</p>				
<b>SPECIAL REQUIREMENTS FOR HAZARDOUS WASTES F020, F021, F022, F023, F026, AND F027 - 264.317</b>							
LFF 97	264.317(a)		Hazardous wastes F020-23, F026, and F027 must not be placed in a landfill unless a management plan for these wastes is approved by the Agency. Factors to be considered are:				
LFF 98	264.317(a)(1)		The volume, physical, and chemical characteristics of the wastes, including the potential to migrate to the environment;				
LFF 99	264.317(a)(2)		The attenuative properties of the soils or other materials;				
LFF 100	264.317(a)(3)		The mobilizing properties of other materials co-disposed with these wastes; and				

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					YES/NO/NA	YES/NO/NA	
LFF 101	264.317(a)(4)		The effectiveness of additional treatment, design, or monitoring techniques				
LFF 102	264.317(b)		<b>The Agency may impose additional requirements in order to reduce the possibility of migration of these wastes to the environment.</b>				

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<p><b>APPLICATION REVIEW CHECKLIST</b></p> <p><b>LAND PROTECTION DIVISION HAZARDOUS WASTE PROGRAM</b></p>  <p><b>OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY</b></p>	Facility Name: _____ Facility ID No.: _____ ODEQ Permit No.: _____ Reference No.: _____ Application Type: _____ Date: _____ (New/Modify/Renewal)	40 CFR 264 Subpart O  <u>INCINERATORS</u>
	Administrative Reviewer: _____ Start Date: _____ Completion Date: _____ Technical Reviewer: _____ Start Date: _____ Completion Date: _____ Issuance Deadline: _____	ODEQ Form Number XXX - XXX
		Shaded areas for ODEQ use only

ITEM #	FEDERAL REGULATIONS 40 CFR's	STATE REGULATIONS OAC 252:205	GENERAL DESCRIPTION	INFO LOCATION	ADMIN. COMPLETE	TECHNICALLY COMPLETE	REMARKS
					YES/NO/NA	YES/NO/NA	
APPLICABILITY - 264.340							
1-1	264.340(a)		Apply to hazardous waste incinerators as defined in 260.10, except as 264.1 provides otherwise.				
1-2	264.340(b)		After considering the waste analysis in part B of the permit application, the Agency, in establishing the permit conditions, must exempt the applicant from all requirements of this subpart except 264.341 (waste analysis) and 264.351 (closure).				

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					YES/NO/NA	YES/NO/NA	
1-3	264.340(b)(1)		<p>If the Agency finds that the waste to be burned is:</p> <p>(i) A listed waste in 261 subpart D solely because it is ignitable (Hazard Code I), corrosive (Hazard Code C), or both; or</p> <p>(ii) A listed waste in 261 subpart D solely because it is reactive (Hazard Code R) other than those listed in 261.23(a)(4) and (5), and will not be burned when other hazardous wastes are present in the combustion zone; or</p> <p>(iii) A characteristic waste under 261 subpart C solely because it is ignitable, corrosive, or both; or</p> <p>(iv) A hazardous waste solely because it is reactive as described by 261.23(a)(1), (2), (3), (6), (7) and (8), and will not be burned when other hazardous wastes are present in the combustion zone; and</p>				
1-4	264.340(b)(2)		If the waste analysis shows that the waste contains none of hazardous constituents listed in 261, appendix VIII, which would be expected in the waste.				
1-5	264.340(c)		If the waste to be burned is as described in paragraphs (b)(1)(i), (ii), (iii), or (iv) of this section and contains insignificant concentrations of the hazardous constituents listed in 261, Appendix VIII, then the Agency, in establishing the permit conditions, may exempt the applicant from all requirements of this subpart except 264.341 (waste analysis) and 264.351 (closure), after considering the waste analysis in Part B of the permit application, unless the waste poses a threat to human health or the environment when burned.				
1-6	264.340(d)		An incinerator may conduct trial burns subject only to the requirements of 270.62 (short term and incinerator permits)				

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					YES/NO/NA	YES/NO/NA	
<b>WASTE ANALYSIS - 264.341</b>							
I-7	264.341(a)		As a portion of the trial burn plan, the facility must have included a waste feed analysis to provide all information required by 270.62(b) or 270.19.  New incinerators must provide the information required by 270.62(c) or 270.19.				
I-8	264.341(b)		Throughout normal operation, the facility must conduct waste analysis to verify that waste feed is within the physical and chemical composition limits specified in the permit.				
<b>PRINCIPAL ORGANIC HAZARDOUS CONSTITUENTS (POHCs) - 264.342</b>							
I-9	264.342(a)		POHCs in the waste feed must be treated to the extent required by the performance standard (264.343).				
I-10	264.342(b)(1)		One or more POHCs will be specified in the permit for each waste feed to be burned.  This specification will be based on the difficulty of incineration and concentration or mass in the waste feed, considering waste analyses and trial burns or data submitted with application's part B.  Organic constituents that represent the greatest difficulty of incineration will be most likely be designated as POHCs.  Constituents are more likely to be designated as POHCs if they are present in large quantities or concentrations in the waste.				
I-11	264.342(b)(2)		Trial POHCs will be designated for performance of trial burns in accordance with 270.62 for obtaining trial burn permits.				

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					YES/NO/NA	YES/NO/NA	
<b>PERFORMANCE STANDARDS - 264.343</b> An incinerator burning hazardous waste must be designed, constructed, and maintained so that, when operated under 264.345, it will meet the following performance standards:							
1-12	264.343(a)(1)		Except as provided in paragraph (a)(2) of this section, an incinerator must achieve a destruction and removal efficiency (DRE) of 99.99% for each POHCs for each waste feed. DRE is determined as:  $DRE = [(Win - Wout)/Win] \times 100\%$ where: Win = mass feed rate of one POHC in the waste feed Wout = mass emission rate of the same POHC in emissions				
1-13	264.343(a)(2)		An incinerator burning F020, F021, F022, F023, F026, or F027 must achieve DRE of 99.9999% for each designated POHC.  This performance must be demonstrated on POHCs that more difficult to incinerate than tetra-, penta-, hexachlorodibenzo-p-dioxins, and dibenzofurans.  The facility must notify the Agency of the intention to incinerate F020, F021, F022, F023, F026, or F027.				
1-14	264.343(b)		An incinerator, producing emissions of more than 1.8 kg/hr, must control hydrogen chloride (HCl) emissions such that the emission is no greater than the larger of either 1.8 kg/hr or 1% of the HCl in the stack gas prior to entering any pollution control equipment.				

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					YES/NO/NA	YES/NO/NA	
1-15	264.343(c)		<p>An incinerator must not emit particulate matter in excess of 180 mg/dry m<sup>3</sup> when corrected for oxygen in the stack gas using the formula:</p> $P_c = P_m \times [14/(21-Y)]$ <p>where</p> <p>P<sub>c</sub>: corrected concentration of particulate matter,</p> <p>P<sub>m</sub>: measured concentration of particulate matter,</p> <p>Y: measured concentration of oxygen in the stack gas, using the Orsat method, in part 60, appendix A (method 3).</p> <p>This correction is to be used by all incinerators except under oxygen enrichment conditions for which the Agency will select an appropriate correction procedure to be specified in the permit.</p>				
1-16	264.343(d)		<p>For enforcement, compliance with permit requirements under 264.345 will be regarded as compliance with this section.</p> <p>However, evidence that compliance with those permit conditions is insufficient to comply with the performance requirements of this section may be "information" justifying modification, revocation, or reissuance of a permit under 270.41.</p>				
<b>HAZARDOUS WASTE INCINERATOR PERMITS - 264.344</b>							
1-17	264.344(a)		The facility may burn only wastes specified in the permit and only under operating conditions specified for those wastes under 264.345, except:				
1-18	264.344(a)(1)		In approved trial burns under 270.62; or				

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					YES/NO/NA	YES/NO/NA	
1-19	264.344(a)(2)		Under exemptions created by 264.340.				
1-20	264.344(b)		Other hazardous wastes may be burned only after operating conditions have been specified in the new permit or a permit modification.  Operating requirements for new wastes may be based on trial burns or alternate data included with Part B of the permit application under 270.19				
1-21	264.344(c)		The permit for a new incinerator must establish appropriate conditions for each applicable requirement, including but not limited to 263.345, sufficient to comply with the following standards:				
1-22	264.344(c)(1)		For the period  beginning with introduction of waste to incinerate and ending with initiation of trial burn,  and only for the minimum time required in (c)(2) of this section,  not to exceed 720 hours operating time,  the operating requirements must be in compliance with the performance standards of 264.343, based on the Agency's engineering judgment.  The Agency may extend once an additional 720 hours when good cause is demonstrated by the applicant.				
1-23	264.344(c)(2)		For the trial burn, the operating requirements must be in compliance with 264.343 and must be in accordance with the approved trial burn plan;				

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					YES/NO/NA	YES/NO/NA	
I-24	264.344(c)(3)		For the period immediately after the trial burn, and sample analysis period, data computation, and submission of trial burn results and permit modification, the operating requirements must be in compliance with the performance standards of 264.343, based on the Agency's engineering judgment.				
I-25	264.344(c)(4)		For the remaining duration of the permit, the operating requirements must be those demonstrated in the trial burn or by alternate data under 270.19(c) to be in compliance with 264.343.				
<b>OPERATING REQUIREMENTS - 264.345</b>							
I-26	264.345(a)		An incinerator must be operated with operating requirements as specified in the permit.  These will be case specific based on trial burn or alternate data under 264.344(b) to comply with performance standards of 264.343.				
I-27	264.345(b)		Each set of operating requirements will specify the composition of the waste feed.  For each waste feed, the permit operation limits will include the following conditions:				
I-28	264.345(b)(1)		Carbon monoxide level in the stack exhaust gas;				
I-29	264.345(b)(2)		Waste feed rate;				
I-30	264.345(b)(3)		Combustion temperature;				

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					YES/NO/NA	YES/NO/NA	
1-31	264.345(b)(4)		An indicator of combustion gas velocity;				
1-32	264.345(b)(5)		Allowable variations in system design or operating procedure; and				
1-33	264.345(b)(6)		Other operating requirements as necessary to ensure the performance standards of 264.343 are met.				
1-34	264.345(c)		During start-up and shut down, hazardous waste (except exemption under 264.340) must not be fed into the incinerator unless the incinerator is operating within the conditions of operations in the permit.				
1-35	264.345(d)		Fugitive emissions from the combustion zone must be controlled by:				
1-36	264.345(d)(1)		Keeping the combustion zone totally sealed against fugitive emissions; or				
1-37	264.345(d)(2)		Maintaining a combustion zone pressure lower than atmospheric pressure; or				
1-38	264.345(d)(3)		An alternate means of control demonstrated (with Part B application) to provide fugitive emissions control equivalent to maintenance of combustion zone pressure lower than atmospheric pressure.				
1-39	264.345(e)		An incinerator must be operated with an automatic waste feed cutoff when operating conditions deviate from limits established in paragraph (a) of this section.				
1-40	264.345(f)		An incinerator must cease operation when changes in waste feed, incinerator design, or operating conditions exceed limits in the permit.				
[RESERVED] - 264.346							

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					YES/NO/NA	YES/NO/NA	
<b>MONITORING AND INSPECTIONS - 264.347</b>							
I-41	264.347(a)		The facility must conduct, at the minimum, the following monitoring while incinerating hazardous waste:				
I-42	264.347(a)(1)		Combustion temperature, waste feed rate, and gas velocity must be monitored continuously.				
I-43	264.347(a)(2)		Carbon monoxide must be monitored continuously downstream of the combustion zone and prior to release to the atmosphere.				
I-44	264.347(a)(3)		Upon the request of the Agency, sampling and analysis of the waste and emissions must be conducted to verify that the operating requirements in the permit achieve the performance standards of 264.343.				
I-45	264.347(b)		The incinerator and associated equipment (pumps, valves, etc.) must be inspected daily for leaks, spills, fugitive emissions, and tampering.				
I-46	264.347(c)		The emergency waste feed cutoff and associated alarms must be tested weekly unless an adequate lesser frequency is approved.  At a minimum, operational testing must be conducted at least monthly.				
I-47	264.347(d)		The monitoring and inspection data must be recorded and the records must be placed in the operating log required by 264.73				
<b>[Reserved] - 264.348 - 264.350</b>							
<b>I-48 CLOSURE - 264.351</b>							
The facility must clean close, or close to an acceptable health-risk based level determined by the Agency.							

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<p><b>APPLICATION REVIEW CHECKLIST</b></p> <p><b>LAND PROTECTION DIVISION HAZARDOUS WASTE PROGRAM</b></p>  <p><b>OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY</b></p>	Facility Name: _____ Facility ID No.: _____ ODEQ Permit No.: _____ Reference No.: _____ Application Type: _____ Date: _____ (New/Modify/Renewal)	40 CFR 264 Subpart AA  <u>AIR EMISSION STANDARDS FOR PROCESS VENTS</u>
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					YES/NO/NA	YES/NO/NA	
<b>APPLICABILITY - 264.1030</b>							
AA 1	264.1030(a)		Applies to facilities that treat, store, or dispose of hazardous wastes (except as provided in 264.1)				

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					YES/NO/NA	YES/NO/NA	
AA 2	264.1030(b)		<ul style="list-style-type: none"> <li>• Except for 264.1034 (d) and (e), applies to</li> <li>• process vents associated with distillation,</li> <li>• fractionation,</li> <li>• thin-film evaporation,</li> <li>• solvent extraction, or</li> <li>• air or steam stripping operations</li> </ul> <p>that manage hazardous wastes with organic concentrations of at least 10-ppmw, if these operations are conducted in:</p>				
AA 3	264.1030(b)(1)		Permitted units under 270, or				
AA 4	264.1030(b)(2)		Hazardous waste recycling units located on permitted hazardous waste management facilities under 270.				
<b>(AA 5) DEFINITIONS - 264.1031</b> [see definitions at the end of this module].							
<b>STANDARDS: PROCESS VENTS - 264.1032</b>							
AA 6	264.1032(a)		<p>A facility with process vents associated with</p> <ul style="list-style-type: none"> <li>• distillation,</li> <li>• fractionation,</li> <li>• thin-film evaporation,</li> <li>• solvent extraction, or</li> <li>• air or steam stripping operations</li> </ul> <p>managing hazardous wastes with organic concentrations of at least 10 ppmw shall either:</p>				

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					YES/NO/NA	YES/NO/NA	
AA 7	264.1032(a)(1)		Reduce total organic emissions from affected process vents below 1.4 kg/h (3 lb/h) and 2.8 Mg/yr (3.1 tons/yr), or				
AA 8	264.1032(a)(2)		Reduce, by use of a control device, total organic emissions from affected process vents by 95 weight percent.				
AA 9	264.1032(b)		<b>If the facility installs a closed-vent system and control device to comply with paragraph (a) of this section the closed-vent system and control device must meet the requirements of 264.1033.</b>				
AA 10	264.1032(c)		Determinations of vent emissions and emission reductions or total organic compound concentrations achieved by add-on control devices may be based on engineering calculations or performance tests.  The performance tests must conform to the requirements of 264.1034(c).				
AA 11	264.1032(d)		<b>When a facility and the Agency do not agree on determinations of vent emissions and/or emission reductions or total organic compound concentrations achieved by add-on control devices based on engineering calculations, the procedures in 264.1034(c) shall be used to resolve the disagreement.</b>				
<b>STANDARDS: CLOSED-VENT SYSTEMS AND CONTROL DEVICES - 264.1033</b>							
AA 12	264.1033(a)(1)		A facility with closed-vent systems and control devices used to comply with provisions of this part shall comply with the provisions of this section.				

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					YES/NO/NA	YES/NO/NA	
AA 13	264.1033(a)(2)		<p>An existing facility which cannot install a closed-vent system and control device on the effective date that the facility becomes subject to the provisions of this subpart must prepare an implementation schedule that includes dates by which the closed-vent system and control device will be installed and in operation.</p> <p>The controls must be installed ASAP, but the implementation schedule may allow up to 18 months after the effective date for installation and startup.</p> <p>All units that begin operation after December 21, 1990, must comply immediately (i.e., must have control devices installed and operating on startup of the affected unit); the 2-year implementation schedule does not apply to these units.</p>				
AA 14	264.1033(b)		<p>A vapor recovery control device (e.g., a condenser or adsorber) is to recover the vented organic vapors at a minimum 95 weight percent efficiency unless the total organic emission limits of 264.1032(a)(1) for all affected process vents are attained with less than 95 weight percent efficiency.</p>				
AA 15	264.1033(c)		<p>An enclosed combustion device (e.g., a vapor incinerator, boiler, or process heater) is</p> <ul style="list-style-type: none"> <li>• to reduce the organic emissions by at least 95 weight percent;</li> <li>• to achieve a total organic compound concentration of 20 ppmv, expressed as the sum of the actual compounds, not carbon equivalents, on a dry basis corrected to 3 percent oxygen; or</li> <li>• to provide a minimum residence time of 0.50 seconds at a minimum temperature of 760 °C.</li> </ul> <p>If a boiler or process heater is used as the control device, then the vent stream shall be introduced into the flame zone of the boiler or process heater.</p>				

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					YES/NO/NA	YES/NO/NA	
AA 16	264.1033(d)(1)		A flare shall have no visible emissions as determined by the methods in paragraph (e)(1) of this section, except for periods not to exceed a total of 5 minutes during any 2 consecutive hours.				
AA 17	264.1033(d)(2)		A flare shall be operated with a flame present at all times, as determined by the methods in paragraph (f)(2)(iii) of this section.				
AA 18	264.1033(d)(3)		<p>A flare shall be used only</p> <ul style="list-style-type: none"> <li>• if the net heating value of the combusted gas is 11.2 MJ/scm (300 Btu/scf) or greater for steam-assisted or air-assisted flare; or</li> <li>• if the net heating value of the combusted gas is 7.45 MJ/scm (200 Btu/scf) or greater for non-assisted flare.</li> </ul> <p>The net heating value of the gas being combusted shall be determined by the methods in paragraph (e)(2) of this section.</p>				
AA 19	264.1033(d)(4)		<p>A steam-assisted or non-assisted flare shall have an exit velocity less than 18.3 m/s (60 ft/s), as determined by the methods in paragraph (e)(3) of this section, except as provided in paragraphs (d)(4) (ii) and (iii) of this section.</p> <p>A steam-assisted or non-assisted flare with an exit velocity between 18.3 m/s (60 ft/s) and 122 m/s (400 ft/s), as determined by the methods in paragraph (e)(3) of this section, is allowed if the net heating value of the combusted gas is greater than 37.3 MJ/scm (1,000 Btu/scf),</p> <p>A steam-assisted or non-assisted flare with an exit velocity less than <math>V_{max}</math> and less than 122 m/s (400 ft/s) is allowed. The exit velocity is determined by the methods in paragraph (e)(3) of this section and <math>V_{max}</math> is determined by the method in paragraph (e)(4) of this section.</p>				

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					YES/NO/NA	YES/NO/NA	
AA 20	264.1033(d)(5)		An air-assisted flare shall have an exit velocity less than $V_{max}$ as determined by the method in paragraph (e)(5) of this section.				
AA 21	264.1033(d)(6)		A flare used to comply with this section shall be steam-assisted, air-assisted, or non-assisted.				
AA 22	264.1033(e)(1)		Reference Method 22 in 40 CFR part 60 shall be used to determine the compliance of a flare with the visible emission provisions of this subpart.  The observation period is 2 hours and shall be used according to Method 22.				

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					YES/NO/NA	YES/NO/NA	
AA 23	264.1033(e)(2)		<p>The net heating value of the combusted gas in a flare shall be calculated using the following equation:</p> $H_T = K \left[ \sum_{i=1}^n C_i H_i \right]$ <p>where:</p> <p><math>H_T</math> = Net heating value of the sample, MJ/scm; where the net enthalpy per mole of off gas is based on combustion at 25 °C and 760 mm Hg, but the standard temperature for determining the volume corresponding to 1 mol is 20 °C;</p> <p><math>K</math> = Constant, <math>1.74 \times 10^{-7}</math> (1/ppm) (g mol/scm) (MJ/kcal) where standard temperature for (g mol/scm) is 20 °C;</p> <p><math>C_i</math> = Concentration of sample component <math>i</math> in ppm on a wet basis, as measured for organics by Reference Method 18 in 40 CFR part 60 and measured for hydrogen and carbon monoxide by ASTM D 1946-82 (incorporated by reference as specified in 260.11);</p> <p><math>H_i</math> = Net heat of combustion of sample component <math>i</math>, kcal/9 mol at 25 °C and 760 mm Hg. The heats of combustion may be determined using ASTM D 2382-83 (incorporated by reference as specified in §260.11) if published values are not available or cannot be calculated.</p>				

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					YES/NO/NA	YES/NO/NA	
AA 24	264.1033(e)(3)		<p>The actual exit velocity of a flare shall be the volumetric flow rate divided by the unobstructed (free) cross-sectional area of the flare tip.</p> <p>The volumetric flow rate is in units of standard temperature and pressure, as determined by Reference Methods 2, 2A, 2C, or 2D in 40 CFR part 60 as appropriate.</p>				
AA 25	264.1033(e)(4)		<p>The maximum allowed velocity in m/s, <math>V_{max}</math>, for a flare complying with paragraph (d)(4)(iii) of this section shall be determined by the following equation:</p> $\text{Log}_{10}(V_{max}) = (H_T + 28.8)/31.7$ <p>where:</p> <p>28.8 = Constant</p> <p>31.7 = Constant</p> <p><math>H_T</math> = The net heating value as determined in paragraph (e)(2) of this section.</p>				
AA 26	264.1033(e)(5)		<p>The maximum allowed velocity in m/s, <math>V_{max}</math>, for an <u>air-assisted</u> flare shall be determined by the following equation:</p> $V_{max} = 8.706 + 0.7084 (H_T)$ <p>where:</p> <p>8.706 = Constant</p> <p>0.7084 = Constant</p> <p><math>H_T</math> = The net heating value as determined in paragraph (e)(2) of this section.</p>				

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					YES/NO/NA	YES/NO/NA	
AA 27	264.1033(f)		The facility shall monitor and inspect each control device required to comply with this section by implementing the following requirements:				
AA 28	264.1033(f)(1)		<p>Install, calibrate, maintain, and operate according to the manufacturer's specifications a flow indicator that provides a record of vent stream flow from each affected process vent to the control device at least once every hour.</p> <p>The flow indicator sensor shall be installed in the vent stream at the nearest feasible point to the control device inlet but before the point at which the vent streams are combined.</p>				
AA 29	264.1033(f)(2)		<p>Install, calibrate, maintain, and operate, according to the manufacturer's specifications, a device to continuously monitor control device operation as specified below:</p> <p>(i) For a <u>thermal vapor incinerator</u>, a temperature monitoring device must be equipped with a continuous recorder with an accuracy of <math>\pm 1</math> percent or <math>\pm 0.5</math> °C, whichever is greater.</p> <p>The sensor shall be in the combustion chamber downstream of the combustion zone.</p> <p>(ii) For a <u>catalytic vapor incinerator</u>, a temperature-monitoring device must be equipped with a continuous recorder.</p> <p>The device shall monitor temperature at two locations and have an accuracy of <math>\pm 1</math> percent or <math>\pm 0.5</math> °C, whichever is greater.</p> <p>One sensor shall be in the vent stream nearest to the catalyst bed inlet and a second sensor shall be in the vent stream nearest to the catalyst bed outlet.</p> <p>(iii) For a <u>flare</u>, a heat sensing monitoring device must be equipped with a continuous recorder that indicates the continuous ignition of the pilot flame.</p> <p>(iv) For a <u>boiler or process heater</u> with a heat input capacity less than 44 MW, a temperature monitoring device</p>				

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					YES/NO/NA	YES/NO/NA	
AA 29 cont.	264.1033(f)(2) cont.		<p>must be equipped with a continuous recorder with an accuracy of <math>\pm 1</math> percent or <math>\pm 0.5</math> °C, whichever is greater.</p> <p>The sensor shall be in the furnace downstream of the combustion zone.</p> <p>(v) For a boiler or process heater with a heat input capacity greater than or equal to 44 MW, a monitoring device must be equipped with a continuous recorder to indicate good combustion operating practices.</p> <p>(vi) For a condenser, either:</p> <p>(A) A monitoring device equipped with a continuous recorder to measure the concentration of the organic compounds in the exhaust vent stream from the condenser, or</p> <p>(B) A temperature-monitoring device equipped with a continuous recorder.</p> <p>The device shall monitor temperature at two locations with accuracy of <math>\pm 1</math> percent or <math>\pm 0.5</math> °C, whichever is greater.</p> <p>One sensor shall be in the exhaust vent stream from the condenser, and a second sensor shall be in the coolant fluid exiting the condenser.</p> <p>(vii) For a carbon adsorption system that regenerates the carbon bed directly in the control device such as a fixed-bed carbon adsorber, either:</p> <p>(A) A monitoring device equipped with a continuous recorder to measure the concentration of the organic compounds in the exhaust vent stream from the carbon bed, or</p> <p>(B) A monitoring device equipped with a continuous recorder to measure a parameter that indicates the carbon bed is regenerated on a regular pre-determined time cycle.</p>				

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					YES/NO/NA	YES/NO/NA	
AA 30	264.1033(f)(3)		Inspect the readings from each monitoring device required by paragraphs (f)(1) and (2) of this section at least once each operating day and, if necessary, immediately implement the corrective measures to operate in compliance with the requirements of this section.				
AA 31	264.1033(g)		A facility using a carbon adsorption system, such as a fixed-bed carbon adsorber that regenerates the carbon bed directly onsite in the control device, shall replace the existing carbon with fresh carbon at a regular, predetermined time interval that is no longer than the carbon service life established as a requirement of 264.1035(b)(4)(iii)(F).				
AA 32	264.1033(h)		A facility using a carbon adsorption system, such as a carbon canister that does <b>not</b> regenerate the carbon bed directly onsite in the control device, shall replace the existing carbon in the control device with fresh carbon on a regular basis by using one of the following procedures:				
AA 33	264.1033(h)(1)		Monitor the concentration of the organic compounds in the exhaust vent stream from the carbon adsorption system on a regular schedule, and replace the existing carbon with fresh carbon immediately when carbon breakthrough is indicated.  The monitoring frequency shall be daily or at an interval no greater than 20 percent of the time required to consume the total carbon working capacity established in 264.1035(b)(4)(iii)(G), whichever is longer.				
AA 34	264.1033(h)(2)		Replace the existing carbon with fresh carbon at a regular, predetermined time interval that is less than the design carbon replacement interval established in 264.1035(b)(4)(iii)(G).				

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					YES/NO/NA	YES/NO/NA	
AA 35	264.1033(i)		An alternative operational or process parameter may be monitored if the alternative parameter will ensure that the control device is operated in conformance with these standards and the control device's design specifications.				
AA 36	264.1033(j)		<p>An affected facility using a control device other than</p> <ul style="list-style-type: none"> <li>• a thermal vapor incinerator,</li> <li>• catalytic vapor incinerator,</li> <li>• flare,</li> <li>• boiler,</li> <li>• process heater,</li> <li>• condenser, or</li> <li>• carbon adsorption system</li> </ul> <p>is required to develop information on the control device operation and identify the process parameter(s) that indicate proper operation and maintenance.</p>				
AA 37	264.1033(k)(1)		Closed-vent systems shall have no detectable emissions, by an instrument reading of less than 500 ppm above background and by visual inspections, as determined by the methods in 264.1034(b).				
AA 38	264.1033(k)(2)		Closed-vent systems shall be monitored during the initial leak detection monitoring, which shall be conducted by the date that the facility becomes subject to the provisions of this section, annually, and at other times as requested by the Agency.				
AA 39	264.1033(k)(3)		Detectable emissions, as indicated by a reading greater than 500 ppm and visual inspections, shall be controlled as soon as practicable but not later than 15 calendar days after the emission is detected.				

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					YES/NO/NA	YES/NO/NA	
AA 40	264.1033(k)(4)		A first attempt at repair shall be made no later than 5 calendar days after the emission is detected.				
AA 41	264.1033(l)		<b>Closed-vent systems and control devices shall be operated at all times when emissions may be vented to them.</b>				
<b>TEST METHODS AND PROCEDURES - 264.1034</b>							
AA 42	264.1034(a)		A facility subject to the provisions of this subpart shall comply with the test methods and procedures requirements provided in this section.				
AA 43	264.1034(b)		<b>When a closed-vent system is tested for compliance with no detectable emissions, as required in 264.1033(k), the test shall comply with the following requirements:</b>				
AA 44	264.1034(b)(1)		Monitoring shall comply with Reference Method 21 in 40 CFR part 60.				
AA 45	264.1034(b)(2)		The detection instrument shall meet the performance criteria of Reference Method 21.				
AA 46	264.1034(b)(3)		The instrument shall be calibrated before use on each day of its use by the procedures in Reference Method 21.				
AA 47	264.1034(b)(4)		Calibration gases shall be: (i) Zero air (less than 10 ppm of hydrocarbon in air). (ii) A mixture of methane or n-hexane and air at a concentration approximating but less than 10,000 ppm methane or n-hexane.				
AA 48	264.1034(b)(5)		The background level shall be determined as set forth in Reference Method 21.				
AA 49	264.1034(b)(6)		The instrument probe shall be traversed around all potential leak interfaces as close to the interface as possible as described in Reference Method 21.				

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					Yes/No/NA	Yes/No/NA	
AA 50	264.1034(b)(7)		The difference between the maximum concentration indicated by the instrument and the background level is compared with 500 ppm for determining compliance.				
AA 51	264.1034(c)		<b>Performance tests to determine compliance with 264.1032(a) and with the total organic concentration limit of 264.1033(c) shall comply with the following:</b>				
AA 52	264.1034(c)(1)		<p>Performance tests to determine total organic concentrations and mass flow rates entering and exiting control devices shall be conducted and data reduced as follows:</p> <p>(i) Method 2 in 40 CFR part 60 for velocity and volumetric flow rate.</p> <p>(ii) Method 18 in 40 CFR part 60 for organic content.</p> <p>(iii) Each test shall consist of three separate runs; each run is at least 1 hour under the operating conditions at the expected highest load or capacity.</p> <p>To determine total organic compound concentrations and mass flow rates, the average of results of all runs shall apply. The average shall be computed on a time-weighted basis.</p> <p>(iv) Total organic mass flow rates shall be determined by the following equation:</p> $E_h = Q_{sd} \left\{ \sum_{i=1}^n C_i MW_i \right\} [0.0416 \times 10^{-6}]$ <p>where:</p> <p><math>E_h</math> = Total organic mass flow rate, kg/h;  <math>Q_{sd}</math> = Volumetric flow rate of gases entering or exiting</p>				

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					YES/NO/NA	YES/NO/NA	
AA 52 (cont.)	264.1034(c)(1) (cont.)		<p>control device, as determined by Method 2, dscm/h;  <math>n</math> = Number of organic compounds in the vent gas;  <math>C_i</math> = Organic concentration in ppm, dry basis of compound <math>i</math> in the vent gas, as determined by Method 18;  <math>MW_i</math> = molecular weight of organic compound <math>i</math> in the vent gas, kg/kg-mol;                      0.0416 = Conversion factor for molar volume, kg-mol/m<sup>3</sup> (@ 293 K and 760 mm Hg);  <math>10^{-6}</math> = Conversion from ppm, ppm<sup>-1</sup>.                      (v) The annual total organic emission rate shall be determined by the following equation:</p> $E_A = (E_h)(H)$ <p>where:</p> $E_A$ = Total organic mass emission rate, kg/y; $E_h$ = Total organic mass flow rate for the process vent, kg/h; $H$ = Total annual hours of operations for the affected unit, h.                     (vi) Total organic emissions shall be determined by summing $E_h$ and by summing $E_A$ for all affected process vents at the facility.				
AA 53	264.1034(c)(2)		<p>The facility shall record process information to determine the conditions of the performance tests.</p> <p>Operations during periods of startup, shutdown, and malfunction shall not constitute representative conditions of a performance test.</p>				

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					YES/NO/NA	YES/NO/NA	
AA 54	264.1034(c)(3)		<p>The facility shall provide performance testing facilities as follows:</p> <ul style="list-style-type: none"> <li>(i) Sampling ports adequate for the test methods specified in paragraph (c)(1) of this section.</li> <li>(ii) Safe sampling platforms.</li> <li>(iii) Safe access to sampling platforms.</li> <li>(iv) Utilities for sampling and testing equipment.</li> </ul>				
AA 55	264.1034(c)(4)		<p>For compliance determination, the time-weighted average of the results of the three runs shall apply.</p> <p>In the event that a sample is accidentally lost or other circumstances beyond the facility's control, compliance may, upon the Agency's approval, be determined using the average of the results of the two other runs.</p>				
AA 56	264.1034(d)		<p>To show that a process vent associated with a hazardous waste</p> <ul style="list-style-type: none"> <li>• distillation,</li> <li>• fractionation,</li> <li>• thin-film evaporation,</li> <li>• solvent extraction, or</li> <li>• air or steam stripping operation</li> </ul> <p>is not subject to the requirements of this subpart, the facility must make an initial determination that the time-weighted, annual average total organic concentration is less than 10 ppmw using one of the following two methods:</p>				

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					YES/NO/NA	YES/NO/NA	
AA 57	264.1034(d)(1)		<p>Direct measurement of the organic concentration of the waste using the following procedures:</p> <p>(i) The facility must take a minimum of four grab samples for each waste stream under process conditions expected to cause the maximum waste organic concentration.</p> <p>(ii) For waste generated onsite, the grab samples must be collected before the waste is exposed to the atmosphere.</p> <p>For waste generated offsite, the grab samples must be collected at the inlet to the first waste management unit, provided the waste has been transferred to the facility in a closed system and the waste is not diluted or mixed with other waste.</p> <p>(iii) Each sample shall be analyzed and the total organic concentration of the sample shall be computed using Method 9060 or 8240 of SW-846.</p> <p>(iv) The arithmetic mean of the analysis results of the four samples shall apply for each waste stream in determining the time-weighted, annual average total organic concentration of the waste.</p> <p>The time-weighted average is to be calculated using the annual quantity of each waste stream processed and the mean organic concentration of each waste stream.</p>				

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					YES/NO/NA	YES/NO/NA	
AA 58	264.1034(d)(2)		<p>If using knowledge of the waste to determine that its total organic concentration is less than 10 ppmw, documentation of the waste determination is required.</p> <p>Examples of documentation to support a determination under this provision include</p> <ul style="list-style-type: none"> <li>• production process information documenting that no organic compounds are used,</li> <li>• information that the waste is identical to one at another facility that has previously been demonstrated by direct measurement to have a total organic content less than 10 ppmw, or</li> <li>• prior speciation analysis results on the same waste stream where it can also be documented that no process changes have occurred since that analysis that could affect the waste total organic concentration.</li> </ul>				
AA 59	264.1034(e)		<p><b>The determination that</b></p> <ul style="list-style-type: none"> <li>• <b>distillation,</b></li> <li>• <b>fractionation,</b></li> <li>• <b>thin-film evaporation,</b></li> <li>• <b>solvent extraction, or</b></li> <li>• <b>air or steam stripping operations</b></li> </ul> <p>manage hazardous wastes with time-weighted, annual average total organic concentrations less than 10 ppmw shall be made as follows:</p>				
AA 60	264.1034(e)(1)		<p>By the effective date that the facility becomes subject to Subpart AA or by the date when the waste is first managed, whichever is later, and</p>				

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					YES/NO/NA	YES/NO/NA	
AA 61	264.1034(e)(2)		For continuously generated waste, annually, or				
AA 62	264.1034(e)(3)		Whenever there is a change in the waste or a change in the process.				
AA 63	264.1034(f)		<p><b>When the facility and the Agency do not agree on whether</b></p> <ul style="list-style-type: none"> <li>• a distillation,</li> <li>• fractionation,</li> <li>• thin-film evaporation,</li> <li>• solvent extraction, or</li> <li>• air or steam stripping operation</li> </ul> <p>manages a hazardous waste with organic concentrations of at least 10 ppmw based on knowledge of the waste, the procedures in Method 8240 may be used to resolve the dispute.</p>				
<b>RECORD KEEPING REQUIREMENTS - 264.1035</b>							
AA 64	264.1035(a)(1)		A facility subject to this subpart shall comply with the record-keeping requirement of this section.				
AA 65	264.1035(a)(2)		A facility with more than one hazardous waste management unit may comply with the record-keeping requirements in one record-keeping system if the system identifies each record by each hazardous waste management unit.				
AA 66	264.1035(b)		The facility must record the following information in the operating record:				

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					YES/NO/NA	YES/NO/NA	
AA 67	264.1035(b)(1)		<p>For facilities complying with 264.1033(a)(2), an implementation schedule with dates that the closed-vent system and control device will be installed and in operation.</p> <p>The schedule must also include a rationale of why the installation cannot be completed at an earlier date.</p> <p>The implementation schedule must be in the operating record by the effective date.</p>				
AA 68	264.1035(b)(2)		<p>Up-to-date documentation of compliance with the process vent standards in 264.1032, including:</p> <p>(i) Information and data identifying all affected process vents, annual throughput and operating hours of each unit, estimated emission rates for each vent and for the overall facility, and the location within the facility of each affected unit.</p> <p>(ii) Information and data on vent emissions and emission reductions achieved by add-on control devices based on engineering calculations or source tests.</p> <p>For compliance, determinations of vent emissions and emission reductions must be made using operating values representing the maximum organic emission conditions, such as at the expected highest load or capacity level.</p> <p>If the facility takes any action that would result in an increase in total organic emissions, then a new determination is required.</p>				
AA 69	264.1035(b)(3)		<p>Where the facility chooses to use test data to determine the organic removal efficiency or total organic compound concentration achieved by the control device, a performance test plan. The test plan must include:</p> <p>(i) A description on how the planned test is going to be conducted when operating at the expected highest load</p>				

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					YES/NO/NA	YES/NO/NA	
AA 69 cont.	264.1035(b)(3) cont.		<p>or capacity level.</p> <p>This shall include the estimated or design flow rate and organic content and define the operating ranges of key process and control device parameters during the test.</p> <p>(ii) A detailed engineering description of the closed-vent system and control device including:</p> <p>(A) Manufacturer's name and model number of control device.</p> <p>(B) Type of control device</p> <p>(C) Dimensions of the control device.</p> <p>(D) Capacity.</p> <p>(E) Construction materials.</p> <p>(iii) A detailed description of sampling and monitoring procedures, including locations, equipment, frequency, and analytical procedures.</p>				
AA 70	264.1035(b)(4)		<p>Documentation of compliance with 264.1033 shall include the following information:</p> <p>(i) References and sources used in preparing the documentation.</p> <p>(ii) Records, including the dates, of each compliance test required by 264.1033(k).</p> <p>(iii) If engineering calculations are used, a design analysis, specifications, drawings, schematics, and piping and instrumentation diagrams based on "APTI Course 415: Control of Gaseous Emissions" (incorporated by reference as in 260.11) or other acceptable engineering texts that present basic control device design information.</p> <p>Manufacturer's documentation that describes the control device design in accordance with paragraphs (b)(4)(iii)(A) through (b)(4)(iii)(G) of this section may be used to comply with this requirement.</p>				

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					YES/NO/NA	YES/NO/NA	
AA 70 cont.	264.1035(b)(4) cont.		<p>The design analysis shall address the vent stream characteristics and control device operation parameters as specified below.</p> <p>(A) For a <u>thermal vapor incinerator</u>: the vent stream composition, constituent concentrations, flow rate, minimum and average temperature in the combustion zone, and the combustion zone residence time.</p> <p>(B) For a <u>catalytic vapor incinerator</u>: the vent stream composition, constituent concentrations, flow rate, minimum and average temperatures across the catalyst bed inlet and outlet.</p> <p>(C) For a <u>boiler or process heater</u>: the vent stream composition, constituent concentrations, flow rate, minimum and average flame zone temperatures, combustion zone residence time, and method and location of the vent stream introduction into the combustion zone.</p> <p>(D) For a <u>flare</u>: the vent stream composition, constituent concentrations, flow rate, and requirements in 264.1033(d).</p> <p>(E) For a <u>condenser</u>: the vent stream composition, constituent concentrations, flow rate, relative humidity, temperature, outlet organic compound concentration level, average temperature of the exhaust vent stream, and average temperatures of the coolant fluid at the condenser inlet and outlet.</p> <p>(F) For a <u>carbon adsorption system such as a fixed-bed adsorber</u> that regenerates the carbon bed directly onsite in the control device: the vent stream composition, constituent concentrations, flow rate, relative humidity, temperature, exhaust vent stream organic compound concentration level, number and capacity of carbon beds, type and working capacity of activated carbon used for carbon beds, total steam flow over the period of each complete carbon bed regeneration cycle,</p>				

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					YES/NO/NA	YES/NO/NA	
AA 70 cont.	264.1035(b)(4) cont.		<p>duration of the carbon bed steaming and cooling/drying cycles, carbon bed temperature after regeneration, carbon bed regeneration time, and service life of carbon.</p> <p>(G) For a <u>carbon adsorption system such as a carbon canister</u> that does not regenerate the carbon bed directly onsite in the control device: the vent stream composition, constituent concentrations, flow rate, relative humidity, temperature, outlet organic concentration level, capacity of carbon bed, type and working capacity of activated carbon used for carbon bed, and carbon replacement interval based on the total carbon working capacity of the control device and source operating schedule.</p> <p>(iv) A signed and dated certification by the facility that the operating parameters used in the design analysis represent the expected highest load or capacity level.</p> <p>(v) A signed and dated certification by the facility that the control device is designed to operate at an efficiency of 95% or greater, unless</p> <ul style="list-style-type: none"> <li>• the total organic concentration limit of 264.1032(a) is achieved at less than 95 weight % efficiency or</li> <li>• the total organic emission limits of 264.1032(a) can be attained by a vapor recovery control device at less than 95 weight % efficiency.</li> </ul> <p>A manufacturer's certification that the control equipment meets the design specs may be used to comply with this requirement.</p> <p>(vi) If performance tests are used to demonstrate compliance, all test results.</p>				

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ITEM #	FEDERAL REGULATIONS 40 CFR	STATE REGULATIONS OAC 252:205	GENERAL DESCRIPTION	INFO LOCATION	ADMIN. COMPLETE	TECHNICALLY COMPLETE	REMARKS
					YES/NO/NA	YES/NO/NA	
AA 71	264.1035(c)		Design documentation and monitoring, operating, and inspection information for each closed-vent system and control device shall be recorded and kept up-to-date in the operating record. The information shall include:				
AA 72	264.1035(c)(1)		Description and date of each modification made to the closed-vent system or control device design.				
AA 73	264.1035(c)(2)		Identification of operating parameter, description of monitoring device, and diagram of monitoring sensor location or locations used to comply with 264.1033 (f)(1) and (f)(2).				
AA 74	264.1035(c)(3)		Monitoring, operating, and inspection information required by paragraphs (f) through (k) of 264.1033.				
AA 75	264.1035(c)(4)		<p>Date, time, and duration of each period while the control device is operating when any monitored parameter exceeds the value established in the control device design analysis as specified below:</p> <p>(i) For a <u>thermal vapor incinerator</u> designed to operate with a minimum residence time of 0.50 second at a minimum temperature of 760 °C, period when the combustion temperature is below 760 °C.</p> <p>(ii) For a <u>thermal vapor incinerator</u> designed to operate with a minimum organic emission reduction efficiency of 95 weight %, when the combustion zone temperature is more than 28 °C below the design average combustion zone temperature as a requirement of paragraph (b)(4)(iii)(A) of this section.</p> <p>(iii) For a <u>catalytic vapor incinerator</u>, period when:                      (A) Temperature at the catalyst bed inlet is more than 28 °C below the average temperature of the inlet as required by paragraph (b)(4)(iii)(B) of this section, or</p>				

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					YES/NO/NA	YES/NO/NA	
AA 75 cont.	264.1035(c)(4) cont.		<p>(B) Temperature difference across the catalyst bed is less than 80% of the design average temperature difference as required by paragraph(b)(4)(iii)(B) of this section.</p> <p>(iv) For a boiler or process heater, period when:                      (A) Flame zone temperature is more than 28 °C below the design average flame zone temperature as required by paragraph (b)(4)(iii)(C) of this section, or                      (B) Position changes where the vent stream is introduced to the combustion zone from the location required by paragraph (b)(4)(iii)(C) of this section.</p> <p>(v) For a flare, period when the pilot flame is not ignited.</p> <p>(vi) For a condenser complying with 264.1033(f)(2)(vi)(A), period when the organic compound concentration level or readings of organic compounds in the exhaust from the condenser are more than 20 percent greater than the design outlet organic compound concentration level as required by paragraph (b)(4)(iii)(E) of this section.</p> <p>(vii) For a condenser complying with 264.1033(f)(2)(vi)(B), period when:                      (A) Temperature of the exhaust from the condenser is more than 6 °C above the design average exhaust temperature as required by paragraph (b)(4)(iii)(E) of this section; or                      (B) Temperature of the coolant fluid exiting the condenser is more than 6 °C above the design average coolant fluid temperature at the condenser outlet as required by paragraph (b)(4)(iii)(E) of this section.</p> <p>(viii) For a carbon adsorption system such as a fixed-bed</p>				

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					YES/NO/NA	YES/NO/NA	
AA 75 cont.	264.1035(c)(4) cont.		carbon adsorber that regenerates the carbon bed directly onsite in the control device and complies with §264.1033(f)(2)(vii)(A), period when the organic compound concentration level or readings of organic compounds in the exhaust from the carbon bed are more than 20% greater than the design exhaust organic compound concentration level as required by paragraph (b)(4)(iii)(F) of this section.  (ix) For a carbon adsorption system such as a fixed-bed carbon adsorber that regenerates the carbon bed directly onsite in the control device and complies with §264.1033(f)(2)(vii)(B), period when the vent stream continues to flow through the control device beyond the predetermined carbon bed regeneration time as required by paragraph (b)(4)(iii)(F) of this section.				
AA 76	264.1035(c)(5)		Explanation for each period recorded under paragraph (4) of the cause for exceeding the design value and the measures implemented to correct the control device operation.				
AA 77	264.1035(c)(6)		For carbon adsorption system subject to 264.1033(g) or 264.1033(h)(2), date when existing carbon in the control device is replaced with fresh carbon.				
AA 78	264.1035(c)(7)		For a carbon adsorption system subject to 264.1033(h)(1), a log that records: Date and time when control device is monitored for carbon breakthrough and the monitoring device reading. Date when existing carbon in the control device is replaced with fresh carbon.				
AA 79	264.1035(c)(8)		Date of each control device startup and shutdown.				
AA 80	264.1035(d)		<b>Records of the monitoring, operating, and inspection information required by paragraphs (c)(3)-(c)(8) of this section need be kept only 3 years.</b>				

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					YES/NO/NA	YES/NO/NA	
AA 81	264.1035(e)		<p>For a control device other than</p> <ul style="list-style-type: none"> <li>• a thermal vapor incinerator,</li> <li>• catalytic vapor incinerator,</li> <li>• flare,</li> <li>• boiler,</li> <li>• process heater,</li> <li>• condenser, or</li> <li>• carbon adsorption system,</li> </ul> <p>the Agency will specify the appropriate record-keeping requirements.</p>				
AA 82	264.1035(f)		<p>Up-to-date information and data used to determine whether or not a process vent is subject to 264.1032, including supporting documentation as required by 264.1034(d)(2) when application of the knowledge of the nature of the hazardous waste stream or the process by which it was produced is used, shall be recorded in a log that is kept in the operating record.</p>				
<b>REPORTING REQUIREMENTS - 264.1036</b>							
AA 83	264.1036(a)		<p>The facility shall submit a semiannual report by dates specified by the Agency.</p> <p>The report shall include the following information:</p>				
AA 84	264.1036(a)(1)		EPA ID number, name, and address of the facility.				

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					YES/NO/NA	YES/NO/NA	
AA 85	264.1036(a)(2)		<p>For each month during the semi-annual reporting period, dates when the control device exceeded the design specs. as defined in 264.1035(c)(4) and as indicated by the control device monitoring required by §264.1033(f) when such exceedances were not corrected within 24 hours, or</p> <p>dates that a flare operated with visible emissions as defined in 264.1033(d) and as determined by Method 22 monitoring,</p> <p>the duration and cause of each exceedance or visible emissions, and any corrective measures taken.</p>				
AA 86	264.1036(b)		<p>If, during the semi-annual reporting period, there is no exceedance as defined in 264.1035(c)(4) for more than 24 hours or a flare does not operate with visible emissions as defined in 264.1033(d), a report to the Agency is not required.</p>				

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(AA 5) DEFINITIONS - 264.1031

All terms not defined herein shall have the meaning given them in the Act and parts 260 -266.

<i>Air stripping operation</i>	A desorption operation employed to transfer one or more volatile components from a liquid mixture into a gas (air) either with or without the application of heat to the liquid. Packed towers, spray towers, and bubble-cap, sieve, or valve-type plate towers are among the process configurations used for contacting the air and a liquid.
<i>Bottoms receiver</i>	A container or tank used to receive and collect the heavier bottoms fractions of the distillation feed stream that remain in the liquid phase.
<i>Closed-vent system</i>	A system that is not open to the atmosphere and that is composed of piping, connections, and, if necessary, flow-inducing devices that transport gas or vapor from a piece or pieces of equipment to a control device.
<i>Condenser</i>	A heat-transfer device that reduces a thermodynamic fluid from its vapor phase to its liquid phase.
<i>Connector</i>	Flanged, screwed, welded, or other joined fittings used to connect two pipelines or a pipeline and a piece of equipment. For the purposes of reporting and record-keeping, connector means flanged fittings that are not covered by insulation or other materials that prevent location of the fittings.
<i>Continuous recorder</i>	A data-recording device recording an instantaneous data value at least once every 15 minutes.
<i>Control device</i>	An enclosed combustion device, vapor recovery system, or flare. Any device the primary function of which is the recovery or capture of solvents or other organics for use, reuse, or sale (e.g., a primary condenser, on a solvent recovery unit) is not a control device.
<i>Control device shutdown</i>	The cessation of operation of a control device for any purpose.
<i>Distillate receiver</i>	A container or tank used to receive and collect liquid material (condensed) from the overhead condenser of a distillation unit and from which the condensed liquid is pumped to larger storage tanks or other process units.
<i>Distillation operation</i>	Operation, either batch or continuous, separating one or more feed stream(s) into two or more exit streams, each exit stream having component concentrations different from those in the feed stream(s). The separation is achieved by the redistribution of the components between the liquid and vapor phase as they approach equilibrium within the distillation unit.
<i>Double block &amp; bleed system</i>	Two block valves connected in series with a bleed valve or line that can vent the line between the two block valves.
<i>Equipment</i>	Each valve, pump, compressor, pressure relief device, sampling connection system, open-ended valve or line, or flange, and any control devices or systems required by this subpart.
<i>Flame zone</i>	The portion of the combustion chamber in a boiler occupied by the flame envelope.
<i>Flow indicator</i>	A device that indicates whether gas flow is present in a vent stream.

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<i>First attempt at repair</i>	To take rapid action for the purpose of stopping or reducing leakage of organic material to the atmosphere using best practices.
<i>Fractionation operation</i>	A distillation operation or method used to separate a mixture of several volatile components of different boiling points in successive stages, each stage removing from the mixture some proportion of one of the components.
<i>Hazardous waste management unit shutdown</i>	A work practice or operational procedure that stops operation of a hazardous waste management unit or part of a hazardous waste management unit. An unscheduled work practice or operational procedure that stops operation of a hazardous waste management unit or part of a hazardous waste management unit for less than 24 hours is not a hazardous waste management unit shutdown. The use of spare equipment and technically feasible bypassing of equipment without stopping operation are not hazardous waste management unit shutdowns.
<i>Hot well</i>	A container for collecting condensate as in a steam condenser serving a vacuum-jet or steam-jet ejector.
<i>In gas/vapor service</i>	The piece of equipment contains or contacts a hazardous waste stream that is in the gaseous state at operating conditions.
<i>In heavy liquid service</i>	The piece of equipment is not in gas/vapor service or in light liquid service.
<i>In light liquid service</i>	The piece of equipment contains or contacts a waste stream where the vapor pressure of one or more of the components in the stream is greater than 0.3 kilopascals (kPa) at 20 °C, the total concentration of the pure components having a vapor pressure greater than 0.3 kPa at 20 °C is equal to or greater than 20 percent by weight, and the fluid is a liquid at operating conditions.
<i>In situ sampling systems</i>	Nonextractive samplers or in-line samplers.
<i>In vacuum service</i>	Equipment is operating at an internal pressure that is at least 5 kPa below ambient pressure.
<i>Malfunction</i>	Any sudden failure of a control device or a hazardous waste management unit or failure of a hazardous waste management unit to operate in a normal or usual manner, so that organic emissions are increased.
<i>Open-ended valve or line</i>	Any valve, except pressure relief valves, having one side of the valve seat in contact with process fluid and one side open to the atmosphere, either directly or through open piping.
<i>Pressure release</i>	The emission of materials resulting from the system pressure being greater than the set pressure of the pressure relief device.
<i>Process heater</i>	A device that transfers heat liberated by burning fuel to fluids contained in tubes, including all fluids except water that are heated to produce steam.
<i>Process vent</i>	Any open-ended pipe or stack that is vented to the atmosphere either directly, through a vacuum-producing system, or through a tank (e.g., distillate receiver, condenser, bottoms receiver, surge control tank, separator tank, or hot well) associated with hazardous waste distillation, fractionation, thin-film evaporation, solvent extraction, or air or steam stripping operations.
<i>Repaired</i>	Equipment is adjusted, or otherwise altered, to eliminate a leak.
<i>Sensor</i>	A device that measures a physical quantity or the change in a physical quantity, such as temperature, pressure, flow rate, pH, or liquid level.
<i>Separator tank</i>	A device used for separation of two immiscible liquids.

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*Solvent extraction operation*

An operation or method of separation in which a solid or solution is contacted with a liquid solvent (the two being mutually insoluble) to preferentially dissolve and transfer one or more components into the solvent.

*Startup*

The setting in operation of a hazardous waste management unit or control device for any purpose.

*Steam stripping operation*

A distillation operation in which vaporization of the volatile constituents of a liquid mixture takes place by the introduction of steam directly into the charge.

*Surge control tank*

A large-sized pipe or storage reservoir sufficient to contain the surging liquid discharge of the process tank to which it is connected.

*Thin-film evaporation operation*

A distillation operation that employs a heating surface consisting of a large diameter tube that may be either straight or tapered, horizontal or vertical. Liquid is spread on the tube wall by a rotating assembly of blades that maintain a close clearance from the wall or actually ride on the film of liquid on the wall.

*Vapor incinerator*

Any enclosed combustion device that is used for destroying organic compounds and does not extract energy in the form of steam or process heat.

*Vented*

Discharged through an opening, typically an open-ended pipe or stack, allowing the passage of a stream of liquids, gases, or fumes into the atmosphere. The passage of liquids, gases, or fumes is caused by mechanical means such as compressors or vacuum-producing systems or by process-related means such as evaporation produced by eating and not caused by tank loading and unloading (working losses) or by natural means such as diurnal temperature changes.

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<p><b>APPLICATION REVIEW CHECKLIST</b></p> <p><b>LAND PROTECTION DIVISION HAZARDOUS WASTE PROGRAM</b></p>  <p><b>OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY</b></p>	Facility Name: _____ Facility ID No.: _____ ODEQ Permit No.: _____ Reference No.: _____ Application Type: _____ Date: _____ (New/Modify/Renewal)	40 CFR 264 Subpart S  <u>CORRECTIVE ACTION FOR SOLID WASTE MANAGEMENT UNITS</u>
	Administrative Reviewer: _____ Start Date: _____ Completion Date: _____ Technical Reviewer: _____ Start Date: _____ Completion Date: _____ Issuance Deadline: _____	ODEQ Form Number XXX - XXX  Shaded areas for ODEQ use only

ITEM #	FEDERAL REGULATIONS 40 CFR	STATE REGULATIONS OAC 252:205	GENERAL DESCRIPTION	INFO LOCATION	ADMIN. COMPLETE	TECHNICALLY COMPLETE	REMARKS
					YES/NO/NA	YES/NO/NA	
CORRECTIVE ACTION MANAGEMENT UNITS (CAMUs) - 264.552							
CAMU 1	264.552(a)		To implement 264.101 or RCRA 3008(h), the Agency may designate an area as a CAMU, as defined in 264.10, in accordance with the requirements of this section.  One or more CAMUs may be designated at a facility.				
CAMU 2	264.552(a)(1)		Placement of remediation wastes in a CAMU does not constitute land disposal of hazardous wastes.				

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					YES/NO/NA	YES/NO/NA	
CAMU 3	264.552(a)(2)		Consolidation or placement of remediation wastes in a CAMU does not constitute creation of a unit subject to minimum technology requirements.				
CAMU 4	264.552(b)(1)		The Agency may designate or incorporate a regulated unit (as defined in 264.90(a)(2)) as a CAMU, if:  (i) the regulated unit is closed or closing (under 264.113 or 265.113); and  (ii) Inclusion of the regulated unit will enhance the remediation actions for the facility.				
CAMU 5	264.552(b)(2)		The subpart F, G and H requirements and the unit-specific requirements of part 264 or 265 that applied to that regulated unit will continue to apply after incorporation into the CAMU.				
CAMU 6	264.552(c)		<b>The Agency shall designate a CAMU in accordance with the following:</b>				
CAMU 7	264.552(c)(1)		The CAMU shall facilitate the implementation of sound remedies;				
CAMU 8	264.552(c)(2)		Waste management activities associated with the CAMU shall not create risks to humans or to the environment;				
CAMU 9	264.552(c)(3)		The CAMU shall include uncontaminated areas, only if for managing the remediation waste is more protective than management of such wastes at the contaminated areas;				
CAMU 10	264.552(c)(4)		The CAMU areas, where wastes remain in place after closure of CAMU, shall be managed and contained;				
CAMU 11	264.552(c)(5)		The CAMU will expedite the timing of remediation implementation, when appropriate and practicable;				

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					YES/NO/NA	YES/NO/NA	
CAMU 12	264.552(c)(6)		The CAMU shall enable the use of treatment technologies to enhance the long-term effectiveness of remedial actions by reducing the toxicity, mobility, or volume of wastes that will remain in place after closure of the CAMU; and				
CAMU 13	264.552(c)(7)		The CAMU shall minimize the land area upon which wastes will remain in place after closure of the CAMU.				
CAMU 14	264.552(d)		<b>The facility shall provide sufficient information for the Agency to designate a CAMU in accordance with criteria in 264.552</b>				
CAMU 15	264.552(e)		<b>The Agency shall specify in the permit or order requirements for CAMUs to include the following:</b>				
CAMU 16	264.552(e)(1)		The areal configuration of the CAMU.				
CAMU 17	264.552(e)(2)		Requirements for remediation waste management to include design, operation and closure.				
CAMU 18	264.552(c)(3)		Requirements for groundwater monitoring that are sufficient to:  (i) Continue to detect and to characterize the movement of existing releases of hazardous constituents to groundwater from sources in the CAMU; and  (ii) Detect and characterize releases of hazardous constituents that may occur from areas of the CAMUs in which wastes will remain in place after closure of the CAMU.				
CAMU 19	264.552(e)(4)		Closure and post-closure requirements.  (i) Closure of CAMUs shall:  (A) Minimize the need for further maintenance; and  (B) For close-in-place areas, control, minimize, or				

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					YES/NO/NA	YES/NO/NA	
CAMU 19 (cont.)	264.552(e)(4) (cont.)		<p>eliminate post-closure escape of hazardous constituents, leachate, contaminated runoff, or hazardous waste decomposition products to the environment.</p> <p>(ii) Requirements for closure of CAMUs shall include the following, if appropriate:</p> <p>(A) Excavation, removal, treatment or containment of wastes;</p> <p>(B) Capping areas where wastes remain after closure;</p> <p>(C) Removal and decontamination of equipment, devices, and structures used in remediation.</p> <p>(iii) The Agency shall consider the following factors for establishing specific closure requirements:</p> <p>(A) CAMU characteristics;</p> <p>(B) Volume of wastes remaining in place after closure;</p> <p>(C) Potential releases from the CAMU;</p> <p>(D) Physical and chemical characteristics of the waste;</p> <p>(E) Hydrological and other relevant environmental conditions; and</p> <p>(F) Potential for exposure of humans and environmental receptors in a release.</p> <p>(iv) Post-closure requirements for close-in-place areas to include monitoring, maintenance activities and frequency to ensure the integrity of the cap or other containment system.</p>				

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					YES/NO/NA	YES/NO/NA	
CAMU 20	264.552(f)		The Agency shall document the rationale for designing CAMUs and shall make such documentation available to the public.				
CAMU 21	264.552(g)		Incorporation of a CAMU into an existing permit must be approved by the Agency under 270.41 or 270.42.				
CAMU 22	264.552(h)		The designation of a CAMU does not change the Agency's existing authority to address clean-up levels, point of compliance, or other remedy selection decisions.				
<b>TEMPORARY UNITS (TUs) - 264.553</b>							
CAMU 23	264.553(a)		For temporary tanks and container storage areas used in remediation under 264.101 or RCRA 3008(h), the Agency may determine that a design, operating, or closure standard applicable to such unit may be replaced by alternative requirements.				
CAMU 24	264.553(b)		Any TU to which alternate requirements are applied under paragraph (a) of this section shall be:				
CAMU 25	264.553(b)(1)		Located within the facility boundary; and				
CAMU 26	264.553(b)(2)		Used only for treatment or storage of remediation wastes.				
CAMU 27	264.553(c)		The Agency shall consider the following factors for establishing standards for a TU:				
CAMU 28	264.553(c)(1)		Length of time such unit will be in operation;				
CAMU 29	264.553(c)(2)		Type of unit;				

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					YES/NO/NA	YES/NO/NA	
CAMU 30	264.553(c)(3)		Volumes of wastes to be managed;				
CAMU 31	264.553(c)(4)		Physical and chemical characteristics of the wastes;				
CAMU 32	264.553(c)(5)		Potential of release from the unit;				
CAMU 33	264.553(c)(6)		Hydrogeological and other relevant environmental conditions; and				
CAMU 34	264.553(c)(7)		Potential for exposure of humans and environmental receptors in a release.				
CAMU 35	264.553(d)		<b>The Agency shall specify the length of time a TU will be allowed to operate, to be no longer than a year.</b> <b>The Agency shall also specify the design, operating, and closure requirements for the unit.</b>				
CAMU 36	264.553(e)		<b>The Agency may extend the operational period once for no longer than one year beyond that originally specified, if the Agency determines that:</b>				
CAMU 37	264.553(e)(1)		Continued operation of the unit will not pose a threat to human health and the environment; and				
CAMU 38	264.553(e)(2)		Continued operation of the unit is necessary to ensure timely and efficient implementation of remedial activities at the facility.				
CAMU 39	264.553(f)		Incorporation of a TU or a time extension into an existing permit shall be:				
CAMU 40	264.553(f)(1)		Approved in accordance with permit modification under 270.41; or				

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					YES/NO/NA	YES/NO/NA	
CAMU 41	264.553(f)(2)		Requested by the facility as a Class II modification under 270.42.				
CAMU 42	264.553(g)		The Agency shall document the rationale for designing a TU and for granting time extensions for TUs and shall make such documentation available to the public.				

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<p><b>APPLICATION REVIEW CHECKLIST</b></p> <p><b>LAND PROTECTION DIVISION HAZARDOUS WASTE PROGRAM</b></p>  <p><b>OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY</b></p>	Facility Name: _____ Facility ID No.: _____ ODEQ Permit No.: _____ Reference No.: _____ Application Type: _____ Date: _____ (New/Modify/Renewal)	40 CFR 264 Subpart F  <u>RELEASES FROM SOLID WASTE MANAGEMENT UNITS</u>
	Administrative Reviewer: _____ Start Date: _____ Completion Date: _____ Technical Reviewer: _____ Start Date: _____ Completion Date: _____ Issuance Deadline: _____	ODEQ Form Number XXX - XXX
	Shaded areas for ODEQ use only	

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	YES/NO/NA	YES/NO/NA					
APPLICABILITY - 264.90							

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					YES/NO/NA	YES/NO/NA	
SWMU 1	264.90(a)(1)		Applicable to facilities that treat, store, or dispose of hazardous waste, except as provided in paragraph (b) of this section.  The facility must satisfy paragraph (a)(2) of this section for all wastes placed in solid waste management units (SWMUs).				
SWMU 2	264.90(a)(2)		All SWMUs must comply with 264.101.  A surface impoundment, waste pile, and land treatment unit or landfill that receives wastes after 7/26/82 (hereinafter referred to as a "regulated unit") must comply with 264.91 through 264.100 in lieu of 264.101 for detecting, characterizing and responding to releases to the uppermost aquifer. The financial responsibility of 264.101 applies to regulated units.				
SWMU 3	264.90(b)		A regulated unit is not subject to regulation for releases into the uppermost aquifer if:				
SWMU 4	264.90(b)(1)		The facility is exempted under 264.1; or				

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					YES/NO/NA	YES/NO/NA	
SWMU 5	264.90(b)(2)		<p>The facility operates a unit which the Agency finds:</p> <ul style="list-style-type: none"> <li>(i) Is an engineered structure,</li> <li>(ii) Does not receive or contain liquid waste or waste containing free liquids,</li> <li>(iii) Is designed and operated to exclude liquid, precipitation, run-on and run-off,</li> <li>(iv) Has both inner and outer layers of containment enclosing the waste,</li> <li>(v) Has a leak detection system built into each containment layer,</li> <li>(vi) The facility will continue to operate and maintain these leak detection systems during the active life, and closure and post-closure care periods, and</li> <li>(vii) To a reasonable degree of certainty, will not allow hazardous constituents to migrate out of the outer containment layer prior to the end of the post-closure care period; or</li> </ul>				
SWMU 6	264.90(b)(3)		<p>The Agency finds, pursuant to 264.280(d), that the treatment zone of a land treatment unit (regulated unit) does not contain hazardous constituents above background (statistically significant), and</p> <p>if an unsaturated zone monitoring program meeting 264.278 has not shown a statistically significant increase in hazardous constituents below the treatment zone during the operating life.</p> <p>An exemption under this paragraph only applies for the post-closure care period; or</p>				

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					YES/NO/NA	YES/NO/NA	
SWMU 7	264.90(b)(4)		The Agency finds no potential migration of liquid from a regulated unit to the uppermost aquifer.  This demonstration must be certified by a qualified geologist or geotechnical engineer. Prediction must be based on the maximum rate of liquid migration; or				
SWMU 8	264.90(b)(5)		The facility designs and operates a pile in compliance with 264.250(c)				
SWMU 9	264.90(c)		The regulations under this subpart apply during the active life and closure periods. After closure, the regulations in this subpart:				
SWMU 10	264.90(c)(1)		Do not apply if the unit is clean closed, or closed to an acceptable health risk level;				
SWMU 11	264.90(c)(2)		Apply during the post-closure care period under 264.117 if the facility conducts a detection monitoring program under 264.98; or				
SWMU 12	264.90(c)(3)		Apply during the compliance period under 264.96 if the facility conducts a corrective action program under 264.99 or corrective action program under 264.100.				
SWMU 13	264.90(d)		Apply to miscellaneous units to comply with 264.601 through 264.603				
<b>REQUIRED PROGRAMS - 264.91</b>							
SWMU 14	264.91(a)		The facility must conduct a monitoring and response program as follows:				

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					YES/NO/NA	YES/NO/NA	
SWMU 15	264.91(a)(1)		When hazardous constituents (264.93) are detected at a compliance point (264.95), the facility must institute a compliance monitoring program under 264.99.  Detected is defined as statistically significant as described in 264.98(f);				
SWMU 16	264.91(a)(2)		When the groundwater protection standard (264.92) is exceeded, the facility must institute a corrective action program under 264.100.  Exceeded is defined as statistically significant as described in 264.99(d);				
SWMU 17	264.91(a)(3)		When hazardous constituents (264.93) exceed concentration limits (264.94) in groundwater between the compliance point (264.95) and the downgradient facility boundary, the facility must institute a corrective action program under 264.100; or				
SWMU 18	264.91(a)(4)		In all other cases, the facility must institute a detection monitoring program under 264.98.				
SWMU 19	264.91(b)		The Agency will specify in the permit, specific elements of the monitoring and response program.  The Agency may include one or more of the programs in paragraph (a) of this section in the permit.				
<b>GROUNDWATER PROTECTION STANDARD - 264.92</b>  Hazardous constituents (264.93) detected in the groundwater from a regulated unit can not exceed the concentration limits (264.94) in the uppermost aquifer beyond the point of compliance (264.95) during the compliance period (264.96).  The Agency will establish this groundwater protection standard in the permit when hazardous constituents have been detected in groundwater.							

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					YES/NO/NA	YES/NO/NA	
<b>HAZARDOUS CONSTITUENTS - 264.93</b>							
SWMU 20	264.93(a)		The Agency will specify in the permit the hazardous constituents (appendix VIII of part 261) to which the groundwater protection standard applies.				
SWMU 21	264.93(b)		The Agency will exclude an appendix VIII constituent if that constituent does not pose hazard to human health of the environment. To grant an exemption, the Agency will consider the following:				
SWMU 22	264.93(b)(1)		<p>Potential adverse effects on groundwater quality, considering:</p> <ul style="list-style-type: none"> <li>(i) The physical and chemical characteristics of the waste, including its potential for migration;</li> <li>(ii) The hydrogeological characteristics;</li> <li>(iii) The quantity of groundwater and the flow direction;</li> <li>(iv) The proximity and withdrawal rates of groundwater users;</li> <li>(v) The current and future uses of groundwater;</li> <li>(vi) The existing quality of groundwater, including sources of contamination and cumulative impact on groundwater;</li> <li>(vii) The potential human exposure health risks;</li> <li>(viii) The potential damage to wildlife, crops, vegetation, and physical structures caused by exposure to waste constituents;</li> <li>(ix) The persistence and permanence of the potential adverse effects; and</li> </ul>				

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					YES/NO/NA	YES/NO/NA	
SWMU 23	264.93(b)(2)		<p>Potential adverse effects on hydraulically-connected surface water quality, considering:</p> <ul style="list-style-type: none"> <li>(i) The volume, physical and chemical characteristics of the waste;</li> <li>(ii) The hydrogeological characteristics;</li> <li>(iii) The quantity and quality of groundwater and the flow direction;</li> <li>(iv) The pattern of rainfall;</li> <li>(v) The proximity of the regulated unit to surface waters;</li> <li>(vi) The current and future uses of surface waters and any established quality standards;</li> <li>(vii) The existing quality of surface water, including sources of contamination and cumulative impact on surface water;</li> <li>(viii) The potential human exposure health risks;</li> <li>(ix) The potential damage to wildlife, crops, vegetation, and physical structures caused by exposure to waste constituents;</li> <li>(x) The persistence and permanence of the potential adverse effects.</li> </ul>				
SWMU 24	264.93(c)		In making any determination under paragraph (b) of this section, the Agency will consider any identification of underground sources of drinking water and exempted aquifers under 40 CFR 144.8.				

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					YES/NO/NA	YES/NO/NA	
<b>CONCENTRATION LIMITS - 264.94</b>							
SWMU 25	264.94(a)		The Agency will specify in the permit concentration limits for hazardous constituents (264.93) in the groundwater. The concentration of a hazardous constituent:				
SWMU 26	264.94(a)(1)		Must not exceed the background level at time of permit; or				
SWMU 27	264.94(a)(2)		Must not exceed levels in Table 1 (see at the end of the checklist) when background levels are under those in Table 1; or				
SWMU 28	264.94(a)(3)		Must not exceed an alternate limit set by the Agency under paragraph (b) of this section.				
SWMU 29	264.94(b)		The Agency may establish an alternate concentration limit and considering the following factors:				

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					YES/NO/NA	YES/NO/NA	
SWMU 30	264.94(b)(1)		<p>Potential adverse effects on groundwater quality, considering:</p> <ul style="list-style-type: none"> <li>(i) The physical and chemical characteristics of the waste, including its potential for migration;</li> <li>(ii) The hydrogeological characteristics;</li> <li>(iii) The quantity of groundwater and the flow direction;</li> <li>(iv) The proximity and withdrawal rates of groundwater users;</li> <li>(v) The current and future uses of groundwater;</li> <li>(vi) The existing quality of groundwater, including sources of contamination and cumulative impact on groundwater;</li> <li>(vii) The potential human exposure health risks;</li> <li>(viii) The potential damage to wildlife, crops, vegetation, and physical structures caused by exposure to waste constituents;</li> <li>(ix) The persistence and permanence of the potential adverse effects; and</li> </ul>				

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					YES/NO/NA	YES/NO/NA	
SWMU 31	264.94(b)(2)		<p>Potential adverse effects on hydraulically-connected surface water quality, considering:</p> <ul style="list-style-type: none"> <li>(i) The volume, physical and chemical characteristics of the waste;</li> <li>(ii) The hydrogeological characteristics;</li> <li>(iii) The quantity and quality of groundwater and the flow direction;</li> <li>(iv) The pattern of rainfall;</li> <li>(v) The proximity of the regulated unit to surface waters;</li> <li>(vi) The current and future uses of surface waters and any established quality standards;</li> <li>(vii) The existing quality of surface water, including sources of contamination and cumulative impact on surface water;</li> <li>(viii) The potential human exposure health risks;</li> <li>(ix) The potential damage to wildlife, crops, vegetation, and physical structures caused by exposure to waste constituents;</li> <li>(x) The persistence and permanence of the potential adverse effects.</li> </ul>				
SWMU 32	264.94(c)		To make determination under paragraph (b) of this section about the use of groundwater, the Agency will consider any identification of underground sources of drinking water and exempted aquifers (144.8)				

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<b>POINT OF COMPLIANCE - 264.95</b>							
SWMU 33	264.95(a)		The Agency will determine in the permit the point of compliance at which the groundwater protection standard (264.92) applies and monitoring must be conducted.  The point of compliance is a vertical surface located at the hydraulically downgradient limit of the waste management area that extends down into the uppermost aquifer underlying the regulated unit.				
SWMU 34	264.95(b)		The waste management area is the limit projected in the horizontal plane of the area on which waste will be placed during the active life of a regulated unit.				
SWMU 35	264.95(b)(1)		The waste management area includes liner, dike, or other barrier to contain waste in a regulated unit.				
SWMU 36	264.95(b)(2)		For more than one regulated unit, the waste management area is an imaginary line circumscribing the several regulated units.				
<b>COMPLIANCE PERIOD - 264.96</b>							
SWMU 37	264.96(a)		The Agency will specify in the permit the compliance period during which the groundwater protection standard (264.92) applies.  The compliance period includes the active and closure periods.				
SWMU 38	264.96(b)		The compliance period begins when the facility initiates the compliance monitoring programs (264.99).				

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					YES/NO/NA	YES/NO/NA	
SWMU 39	264.96(c)		If the facility is engaged in a corrective action program at the end of the compliance period in paragraph (a) of this section, the compliance period is extended until the groundwater protection standard (264.92) has not been exceeded for three consecutive years.				
<b>GENERAL GROUNDWATER MONITORING REQUIREMENTS - 264.97</b>							
The facility must comply with the following requirements for any groundwater monitoring program to satisfy Detection Monitoring Program (264.98), Compliance Monitoring Program (264.99), or Corrective Action Program (264.100).							
SWMU 40	264.97(a)		The groundwater monitoring system must consist of sufficient wells at appropriate locations and depths to yields samples from the uppermost aquifer that:				
SWMU 41	264.97(a)(1)		Represent the quality of unaffected background water;  (i) A determination of background quality may include wells that are not upgradient where:  (A) Hydrogeologic conditions do not allow the facility to determine what wells are upgradient; and  (B) Sampling at other wells will provide background quality that is representative or more representative than that of the upgradient wells; and				
SWMU 42	264.97(a)(2)		Represent the quality of groundwater passing the point of compliance.				
SWMU 43	264.97(a)(3)		Allow for the detection of contamination from the waste management area to the uppermost aquifer.				

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					YES/NO/NA	YES/NO/NA	
SWMU 44	264.97(b)		If a facility contains more than one regulated unit, separate groundwater monitoring systems are not required for each regulated unit, provided that provisions for sampling the groundwater in the uppermost aquifer will enable detection and measurement at the compliance point.				
SWMU 45	264.97(c)		All monitoring wells must be cased. This casing must be screened or perforated and packed.  The annular space above the sampling depth must be sealed to prevent contamination.				
SWMU 46	264.97(d)		The groundwater monitoring program must include consistent sampling and analysis procedures.  At a minimum the program must include procedures and techniques for:				
SWMU 47	264.97(d)(1)		Sample collection;				
SWMU 48	264.97(d)(2)		Sample preservation and shipment;				
SWMU 49	264.97(d)(3)		Analytical procedures; and				
SWMU 50	264.97(d)(4)		Chain of custody control.				
SWMU 51	264.97(e)		The groundwater monitoring program must include appropriate sampling and analytical methods.				
SWMU 52	264.97(f)		The ground-water monitoring program must include a determination of groundwater elevation each time groundwater is sampled.				

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					YES/NO/NA	YES/NO/NA	
SWMU 53	264.97(g)		<p>In detection or compliance monitoring, data will be collected from background wells and wells at compliance points.</p> <p>The number and kinds of samples must be adequate to establish appropriate statistical background.</p> <p>Sample size shall be large enough to ensure reasonable confidence.</p> <p>The facility will determine the sampling procedure and interval subject to approval by the Agency. The sampling procedure shall be:</p>				
SWMU 54	264.97(g)(1)		<p>A sequence of at least four samples to assure that an independent sample is obtained referencing the uppermost aquifer's effective porosity, hydraulic conductivity, and hydraulic gradient, and the fate and transport of contaminants, or</p>				
SWMU 55	264.97(g)(2)		<p>An alternate sampling procedure proposed by the facility and approved by the Agency.</p>				
SWMU 56	264.97(h)		<p>The facility will specify one of the following statistical methods which, upon approval by the Agency, will be specified in the permit.</p> <p>The statistical test chosen shall be conducted separately for each hazardous constituent in each well.</p> <p>Where practical quantification limits (pqls) are used in any statistical procedures [(264.97(i)(5))], the pql must be proposed by the facility and approved by the Agency.</p> <p>Use of any of the following statistical methods must be protective of human health and the environment and must comply with performance standards outlined in paragraph (i) of this section.</p>				

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					YES/NO/NA	YES/NO/NA	
SWMU 57	264.97(h)(1)		A parametric analysis of variance (ANOVA) followed by multiple comparisons procedures to identify evidence of contamination.  The method must include estimation and testing of the contrasts between each compliance well's mean and the background mean for each constituent.				
SWMU 58	264.97(h)(2)		An analysis of variance (ANOVA) based on ranks followed by multiple comparisons procedures to identify evidence of contamination.  The method must include estimation and testing of the contrasts between each compliance well's median and the background median for each constituent.				
SWMU 59	264.97(h)(3)		A tolerance or prediction interval procedure in which an interval for each constituent is established from the distribution of background data, and the level of each constituent in each compliance well is compared to the upper tolerance or prediction limit.				
SWMU 60	264.97(h)(4)		A control chart approach that gives control limits for each constituent.				
SWMU 61	264.97(h)(5)		Another statistical test method submitted by the facility and approved by the Agency.				
SWMU 62	264.97(i)		Any statistical method under 264.97(h) shall comply with the following performance standards:				

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SWMU 63	264.97(i)(1)		<p>The statistical method used to evaluate groundwater monitoring data shall be appropriate for the distribution of hazardous constituents.</p> <p>If the distribution of hazardous constituents is shown to be inappropriate for a normal theory test, then the data should be transformed or a distribution-free theory test should be used.</p> <p>If the distributions for the constituents differ, more than one statistical method may be needed.</p>				
SWMU 64	264.97(i)(2)		<p>If an individual well comparison procedure is used to compare a constituent concentration with background or a groundwater protection standard, the test shall be done at Type I error level no less than 0.01 for each testing period.</p> <p>If a multiple comparisons procedure is used, the Type I error rate for each testing period shall be no less than 0.05; however, the Type I error of no less than 0.01 for individual well comparisons must be maintained.</p> <p>This performance standard does not apply to tolerance intervals, prediction intervals, or control charts.</p>				
SWMU 65	264.97(i)(3)		<p>If a control chart approach is used to evaluate groundwater monitoring data, the specific type of control chart and its parameter values shall be proposed by the facility and for approval by the Agency.</p>				

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SWMU 66	264.97(i)(4)		<p>If a tolerance interval or a prediction interval is used to evaluate groundwater monitoring data, the levels of confidence and, for tolerance intervals, the percentage of the population, shall be proposed by the facility and for approval by the Agency.</p> <p>These parameters will be determined after considering the number of samples in the background data base, the data distribution, and the range of the concentration values for each constituent.</p>				
SWMU 67	264.97(i)(5)		<p>The statistical method shall account for data below the limit of detection with one or more statistical procedures.</p> <p>Any practical quantification limit (pql) approved by the Agency under 264.97(h) that is used in the statistical method shall be the lowest concentration level that can be reliably achieved.</p>				
SWMU 68	264.97(i)(6)		<p>If necessary, the statistical method shall include procedures to control or correct for seasonal and spatial variability as well as temporal correlation in the data.</p>				
SWMU 69	264.97(j)		<p>Groundwater monitoring data collected as under paragraph (g) of this section including actual levels of constituents must be maintained in the operating record. The Agency will specify in the permit when the data must be submitted for review.</p>				
<b>DETECTION MONITORING PROGRAM - 264.98</b>							
SWMU 70	264.98(a)		<p>The facility must monitor for indicator parameters, waste constituents, or reaction products in groundwater.</p> <p>The Agency will specify the parameters or constituents in the permit after considering:</p>				

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SWMU 71	264.98(a)(1)		The types, quantities, and concentrations of constituents in wastes;				
SWMU 72	264.98(a)(2)		The mobility, stability, and persistence of waste constituents or their reaction products in the unsaturated zone;				
SWMU 73	264.98(a)(3)		The detectability of indicator parameters, waste constituents, and reaction products in groundwater; and				
SWMU 74	264.98(a)(4)		The concentration and coefficients of variation of monitoring parameters in the groundwater background.				
SWMU 75	264.98(b)		The facility must install a groundwater monitoring system at the compliance point (264.95). The groundwater monitoring system must comply with 264.97(a)(2), (b), and (c).				
SWMU 76	264.98(c)		The facility must conduct a groundwater monitoring program for each chemical parameter and hazardous constituent pursuant to paragraph (a) of this section in acc. with 264.97(g).  The facility must maintain groundwater data as measured and in form for determination of statistical significance under 264.97(h).				
SWMU 77	264.98(d)		The Agency will specify the frequencies for sampling and statistical testing to determine evidence of contamination for any parameter under paragraph (a) of this section in acc with 264.97(g).  A sequence of at least 4 samples from each well (background and compliance) must be collected at least semi-annually.				
SWMU 78	264.98(e)		The facility must determine the groundwater flow rate and direction in the uppermost aquifer annually.				

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SWMU 79	264.98(f)		The facility must determine statistically whether there is evidence of contamination for any chemical parameter in the permit pursuant to paragraph (a) of this section at a frequency under paragraph (d) of this section.				
SWMU 80	264.98(f)(1)		In determining evidence of contamination, the facility must use methods in the permit under 264.97(h). These methods must compare compliance point data and background data.				
SWMU 81	264.98(f)(2)		The facility must determine statistically whether there is evidence of contamination at each monitoring well at the compliance point within a reasonable period after sampling.  The Agency will specify in the permit the reasonable period, after considering the statistical test and lab testing.				
SWMU 82	264.98(g)		If the facility determines pursuant to paragraph (f) of this section that there is evidence of contamination pursuant to paragraph (a) of this section at the compliance point, the facility must:				
SWMU 83	264.98(g)(1)		Notify the Agency in writing within 7 days which includes what chemical parameters;				
SWMU 84	264.98(g)(2)		Immediately sample all monitoring wells and determine whether constituents in appendix IX of 264 are present and the concentrations.				
SWMU 85	264.98(g)(3)		For any appendix IX compounds found, the facility may resample and reanalyze within one month.  If the second analyses confirm the initial results, then the constituents will form the basis for compliance monitoring  If the facility does not resample, the initial findings will form the basis for compliance monitoring.				

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					Yes/No/NA	Yes/No/NA	
SWMU 86	264.98(g)(4)		<p>Within 90 days, the facility must submit a permit modification to establish a compliance monitoring program (264.99). The application must include:</p> <ul style="list-style-type: none"> <li>(i) Concentration of any appendix IX constituent detected at each monitoring well at the compliance point;</li> <li>(ii) Any proposed changes to the groundwater monitoring system to meet 264.99;</li> <li>(iii) Any proposed changes to the monitoring frequency, sampling and analysis procedures, or statistical methods to meet 264.99</li> <li>(iv) For each constituent detected at the compliance point, a proposed concentration limit under 264.94(a)(1) or (2), or alternate concentration limit under 264.94(b); and</li> </ul>				
SWMU 87	264.98(g)(5)		<p>Within 180 days, the facility must submit:</p> <ul style="list-style-type: none"> <li>(i) All data to justify an alternate concentration limit under 264.94(b); and</li> <li>(ii) An engineering feasibility plan for a corrective action plan to meet 264.100, unless: <ul style="list-style-type: none"> <li>(A) All hazardous constituents identified under paragraph (g)(2) of this section are listed in Table 1 of 264.94 and their concentrations are below those in Table 1; or</li> <li>(B) The facility has sought an alternate concentration limit under 264.94(b).</li> </ul> </li> </ul>				

Facility Name \_\_\_\_\_  
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ITEM #	FEDERAL REGULATIONS 40 CFR	STATE REGULATIONS OAC 252:205	GENERAL DESCRIPTION	INFO LOCATION	ADMIN. COMPLETE	TECHNICALLY COMPLETE	REMARKS
					YES/NO/NA	YES/NO/NA	
SWMU 88	264.98(g)(6)		<p>If the facility so determines, pursuant to paragraph (f) of this section, it may demonstrate that the statistically significant difference of hazardous constituents is from a source other than a regulated unit or is from an error in sampling, analysis, or statistical evaluation, or natural variation in groundwater.</p> <p>The facility may make a demonstration in addition or in lieu of a permit modification under paragraph (g)(4) of this section. However, the facility is not relieved of the requirement to submit a permit modification unless the demonstration is approved. In making a demonstration, the facility must:</p> <ul style="list-style-type: none"> <li>(i) Within 7 days of the finding of contamination, notify the Agency that the facility intends to make a demonstration;</li> <li>(ii) Within 90 days, submit a report to demonstrate the source of contamination is other than a regulated unit, or resulted from an error;</li> <li>(iii) Within 90 days, submit an application for a permit modification to make any appropriate changes to detection monitoring program; and</li> <li>(iv) Continue to monitor.</li> </ul>				
SWMU 89	264.98(h)		<p>If the facility determines that the detection monitoring program no longer satisfies the requirements of this section, the facility must submit, within 90 days, a permit modification.</p>				
COMPLIANCE MONITORING PROGRAM - 264.99							

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ITEM #	FEDERAL REGULATIONS 40 CFR	STATE REGULATIONS OAC 252:205	GENERAL DESCRIPTION	INFO LOCATION	ADMIN. COMPLETE	TECHNICALLY COMPLETE	REMARKS
					YES/NO/NA	YES/NO/NA	
SWMU 90	264.99(a)		The facility must monitor groundwater to determine whether regulated units comply with groundwater protection standard (264.92). The groundwater protection standard includes:				
SWMU 91	264.99(a)(1)		A list of hazardous constituents (264.93);				
SWMU 92	264.99(a)(2)		Concentration limits (264.94) for each of the hazardous constituents.				
SWMU 93	264.99(a)(3)		The compliance point (264.95); and				
SWMU 94	264.99(a)(4)		The compliance period (264.96).				
SWMU 95	264.99(b)		The facility must install a groundwater monitoring system at the compliance point (264.95). The system must comply with 264.97(a)(2), (b), and (c).				
SWMU 96	264.99(c)		The Agency will specify the sampling procedures and statistical methods consistent with 264.97(g) and (h).				
SWMU 97	264.99(c)(1)		The facility must conduct a sampling program for each hazardous constituent (264.97(g)).				
SWMU 98	264.99(c)(2)		The facility must record groundwater data as measured in form to determine statistical significance (264.97(h)) for the compliance period.				
SWMU 99	264.99(d)		The facility must determine whether there is statistically significant evidence of increased contamination for any hazardous constituent in the permit, pursuant to paragraph (a) of this section, at a frequency under paragraph (f) under this section.				

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ITEM #	FEDERAL REGULATIONS 40 CFR	STATE REGULATIONS OAC 252:205	GENERAL DESCRIPTION	INFO LOCATION	ADMIN. COMPLETE	TECHNICALLY COMPLETE	REMARKS
					YES/NO/NA	YES/NO/NA	
SWMU 100	264.99(d)(1)		In determining an increase in contamination, the facility must use the methods in the permit under 264.97(h).  The methods must compare data collected at the compliance point to a concentration limit (264.94).				
SWMU 101	264.99(d)(2)		The facility must determine whether there is an increase in contamination at the compliance point within a reasonable time after completion of sampling.  The Agency will specify that time period in the permit after considering the statistical and sampling tests.				
SWMU 102	264.99(e)		The facility must determine the groundwater flow rate and direction in the uppermost aquifer annually.				
SWMU 103	264.99(f)		The Agency will specify the frequencies for sampling and statistical testing to determine evidence of contamination in acc with 264.97(g).  A sequence of at least 4 samples from each well (background and compliance) must be collected at least semi-annually.				

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ITEM #	FEDERAL REGULATIONS 40 CFR	STATE REGULATIONS OAC 252:205	GENERAL DESCRIPTION	INFO LOCATION	ADMIN. COMPLETE	TECHNICALLY COMPLETE	REMARKS
					YES/NO/NA	YES/NO/NA	
SWMU 104	264.99(g)		<p>The facility must analyze samples from the compliance point for all constituents in appendix IX of 264 annually to determine whether additional hazardous constituents are present in the uppermost aquifer and, if so, at what concentration, pursuant to 264.98(f).</p> <p>If additional appendix IX constituents are present, the facility may resample within 1 month and repeat the appendix IX analysis.</p> <p>If the second analysis confirms new constituents, the facility must report to the Agency within 7 days and add them to the monitoring list.</p> <p>If the facility chooses not to resample, the facility must report to the Agency initial analysis of constituents within 7 days and add them to the monitoring list.</p>				
SWMU 105	264.99(h)		If the facility determines, pursuant to paragraph (d) of this section, that any concentration limits (264.94) are being exceeded at the compliance point, the facility must:				
SWMU 106	264.99(h)(1)		Notify the Agency in writing within 7 days indicating what concentration limits have been exceeded.				

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					YES/NO/NA	YES/NO/NA	
SWMU 107	264.99(h)(2)		<p>Submit a permit modification application to establish a corrective action program (264.100) within 180 days, or within 90 days if an engineering study has been submitted under 264.98(h)(5). The application must include:</p> <p>(i) A detailed description of corrective actions that will achieve compliance with the groundwater protection standard under paragraph (a) of this section; and</p> <p>(ii) A groundwater monitoring program that will demonstrate the effectiveness of the corrective action. Such a groundwater monitoring program may be based on a compliance monitoring program developed to meet the requirements of this section.</p>				
SWMU 108	264.99(i)		<p>If the facility determines, pursuant to paragraph (d) of this section, that the concentration limits are being exceeded at the compliance point, the facility may demonstrate that a source other than a regulated unit, or an error in sampling, analysis, or statistical evaluation, or natural variation in groundwater caused the concentration limits to be exceeded. In making a demonstration, the facility must:</p>				
SWMU 109	264.99(i)(1)		<p>Within 7 days, notify the Agency that the facility intends to make a demonstration;</p>				
SWMU 110	264.99(i)(2)		<p>Within 90 days, submit a report to demonstrate a source other than the regulated unit caused the standard to be exceeded, or that the apparent noncompliance is due to error;</p>				
SWMU 111	264.99(i)(3)		<p>Within 90 days, submit an application for a permit modification to make any appropriate changes to the compliance monitoring program; and</p>				
SWMU 112	264.99(i)(4)		<p>Continue to monitor.</p>				

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					YES/NO/NA	YES/NO/NA	
SWMU 113	264.99(j)		If the facility determines that the compliance monitoring program no longer satisfies the requirements of this section, the facility must submit, within 90 days, a permit modification.				
<b>CORRECTIVE ACTION PROGRAM - 264.100</b>							
SWMU 114	264.100(a)		The facility must take corrective action to ensure that regulated units comply with groundwater protection standard (264.92). The groundwater protection standard includes:				
SWMU 115	264.100(a)(1)		A list of hazardous constituents (264.93);				
SWMU 116	264.100(a)(2)		Concentration limits (264.94) for each of the hazardous constituents.				
SWMU 117	264.100(a)(3)		The compliance point (264.95); and				
SWMU 118	264.100(a)(4)		The compliance period (264.96).				
SWMU 119	264.100(b)		The facility must implement a corrective action plan that prevents hazardous constituents from exceeding the concentration limits at the compliance point by removing the hazardous constituents or treating them in place. The permit will specify measures to be taken.				

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					YES/NO/NA	YES/NO/NA	
SWMU 120	264.100(c)		The facility must begin corrective action within a reasonable time after the groundwater protection standard is exceeded. The Agency will specify that time period in the permit.  If the permit includes a corrective action program in addition to a compliance monitoring program, the permit will specify the commencement of the corrective action program and will operate in lieu of 264.99(i)(2).				
SWMU 121	264.100(d)		In conjunction with a corrective action program, the facility must establish and implement a groundwater monitoring program to demonstrate the effectiveness of the corrective action program.  Such a monitoring program may be based on the requirements of a compliance monitoring program (264.99) and must be as effective as that program in determining compliance with the groundwater protection standard (264.92) and in determining the success of a corrective action program under paragraph (e) of this section.				
SWMU 122	264.100(e)		In addition, the facility must conduct a corrective action program to remove or treat in place any hazardous constituents (264.93) that exceed concentration limits in groundwater (264.94):				
SWMU 123	264.100(e)(1)		Between the compliance point (264.95) and the downgradient boundary; and				
SWMU 124	264.100(e)(2)		Beyond the facility boundary, unless the facility demonstrates of inability to obtain permission to undertake such action.  The facility is not relieved of all responsibility to clean up an offsite migration where off-site access is denied.				
SWMU 125	264.100(e)(3)		Corrective action measures must be initiated and completed within a reasonable time.				

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					YES/NO/NA	YES/NO/NA	
SWMU 126	264.100(e)(4)		Corrective action measures may be terminated once the concentration of hazardous constituents (264.93) is reduced to levels below the concentration limits (264.94)				
SWMU 127	264.100(f)		<p>The facility must continue corrective action measures during the compliance period to extent necessary to ensure that the groundwater protection standard is not exceeded.</p> <p>If the facility is conducting corrective action at the end of the compliance period, the facility must continue that corrective action for as long as necessary to achieve compliance with the groundwater protection standard.</p> <p>The facility may terminate corrective action measures beyond the active life (inc. Closure) if the facility can demonstrate, based on groundwater monitoring program under paragraph (d) of this section, that the groundwater protection standard (264.92) has not been exceeded for a period of 3 consecutive years.</p>				
SWMU 128	264.100(g)		The facility must report semi-annually the effectiveness of the corrective action plan.				
SWMU 129	264.100(h)		If the facility determines that the corrective action plan no longer satisfies the reqs of this section, the facility must, within 90 days, submit a permit modification.				
<b>CORRECTIVE ACTION FOR SOLID WASTE MANAGEMENT UNITS (SWMUs) - 264.101</b>							
SWMU 130	264.101(a)		A facility seeking a permit for TSD must institute corrective action for all releases of hazardous waste or HW constituents from any SWMU, regardless of time at which waste was placed in the unit.				

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					YES/NO/NA	YES/NO/NA	
SWMU 131	264.101(b)		<p>Corrective action will be in the permit in accordance with this section and subpart of this part.</p> <p>The permit will contain the compliance schedules for such corrective action and financial assurances.</p>				
SWMU 132	164.101(c)		<p>The facility must implement corrective actions beyond the facility boundary as necessary, unless the facility demonstrates inability to obtain permission to undertake such action.</p> <p>The facility is not relieved of all responsibility to clean up an offsite migration where off-site access is denied.</p> <p>On-site measures to address such releases will be determined on a case-by-case basis.</p> <p>Assurances of financial responsibility for such corrective action must be provided.</p>				

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Table 1  
 MAXIMUM CONCENTRATION OF CONSTITUENTS  
 FOR GROUNDWATER PROTECTION  
 (264.94)

Constituents	Max. Conc. (mg/L)
Arsenic	0.05
Barium	1.0
Cadmium	0.01
Chromium	0.05
Lead	0.05
Mercury	0.002
Selenium	0.01
Silver	0.05
Endrin *	0.0002
Lindane *	0.004
Methoxychlor	0.1
Toxaphene	0.005
2,4-D *	0.1
2,4,5-TP Silvex *	0.01

\* See chemical names in 40 CFR

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<p><b>APPLICATION REVIEW CHECKLIST</b></p> <p><b>LAND PROTECTION DIVISION HAZARDOUS WASTE PROGRAM</b></p>  <p><b>OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY</b></p>	Facility Name: _____ Facility ID No.: _____ ODEQ Permit No.: _____ Reference No.: _____ Application Type: _____ Date: _____ (New/Modify/Renewal)	40 CFR 264 Subpart X  <u>MISCELLANEOUS UNITS</u>
	Administrative Reviewer: _____ Start Date: _____ Completion Date: _____ Technical Reviewer: _____ Start Date: _____ Completion Date: _____ Issuance Deadline: _____	ODEQ Form Number XXX - XXX
		Shaded areas for ODEQ use only.

ITEM #	FEDERAL REGULATIONS 40 CFR	STATE REGULATIONS OAC 252:205	GENERAL DESCRIPTION	INFO LOCATION	ADMIN. COMPLETE	TECHNICALLY COMPLETE	REMARKS
					YES/NO/NA	YES/NO/NA	
(MU 1) APPLICABILITY - 264.600							
Applies to facilities that treat, store, or dispose of hazardous waste in miscellaneous units, except as 264.1 provides otherwise.							

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ITEM #	FEDERAL REGULATIONS 40 CFR	STATE REGULATIONS OAC 252:205	GENERAL DESCRIPTION	INFO LOCATION	ADMIN. COMPLETE	TECHNICALLY COMPLETE	REMARKS
					YES/NO/NA	YES/NO/NA	
<p><b>Environmental Performance Standards - 264.601</b></p> <p>A miscellaneous unit (MU) must be located, designed, constructed, operated, maintained, and closed in a manner to ensure protection of human health and the environment.</p> <p>Permits are to contain the design and operating requirements, responses to releases, and other requirements as necessary.</p> <p>Permits shall include requirements of subparts I through O, 270, and 146 that are appropriate.</p> <p>Protection of human health and the environment includes, but is not limited to:</p>							
MU 2	264.601(a)		<u>Prevention of any releases into the groundwater or subsurface environment, considering:</u>				
MU 3	264.601(a)(1)		The volume and physical and chemical characteristics of the waste in the unit, including its potential for migration through containing structures;				
MU 4	264.601(a)(2)		The hydrologic and geologic characteristics of the unit and the surrounding area;				
MU 5	264.601(a)(3)		The existing quality of groundwater, including other sources of contamination and their cumulative impact on the groundwater;				
MU 6	264.601(a)(4)		The quantity and direction of groundwater flow;				
MU 7	264.601(a)(5)		The proximity to and withdrawal rates of current and potential groundwater users;				
MU 8	264.601(a)(6)		The pattern of land use in the region;				
MU 9	264.601(a)(7)		The potential for waste constituents to migrate or deposit into the subsurface physical structure and into the root zone of food-chain crops and other vegetation;				
MU 10	264.601(a)(8)		The potential for health risks due to exposure;				

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					YES/NO/NA	YES/NO/NA	
MU 11	264.601(a)(9)		The potential for damage to animals, wildlife, crops, vegetation, and physical structures.				
MU 12	264.601(b)		<b>Prevention of any releases to <u>surface waters, wetlands, or soil surface</u> considering:</b>				
MU 13	264.601(b)(1)		The volume and physical and chemical characteristics of the waste in the unit;				
MU 14	264.601(b)(2)		The effectiveness and reliability of the containing and collection system;				
MU 15	264.601(b)(3)		The hydrologic characteristics of the unit and the surrounding area, including topography;				
MU 16	264.601(b)(4)		The pattern of precipitation in the region;				
MU 17	264.601(b)(5)		The quantity, quality, and direction of groundwater flow;				
MU 18	264.601(b)(6)		The proximity of the unit to surface waters;				
MU 19	264.601(b)(7)		The current and potential use of surface waters and their established quality standards;				
MU 20	264.601(b)(8)		The existing quality of surface waters and surface soils, including other sources of contamination and their cumulative impact those media;				
MU 21	264.601(b)(9)		The patterns of land use in the region;				
MU 22	264.601(b)(10)		The potential for health risks due to exposure;				
MU 23	264.601(b)(11)		The potential for damage to animals, wildlife, crops, vegetation, and physical structures.				
MU 24	264.601(c)		<b>Prevention of any releases to <u>air</u> considering:</b>				

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					YES/NO/NA	YES/NO/NA	
MU 25	264.601(c)(1)		The volume and physical and chemical characteristics of the waste in the unit, including its potential for emission and dispersal of gases, aerosols and particulates;				
MU 26	264.601(c)(2)		The effectiveness and reliability of the containing system to prevent emissions;				
MU 27	264.601(c)(3)		The operating characteristics of the unit;				
MU 28	264.601(c)(4)		The atmospheric, meteorologic, and topographic characteristics of the unit and surrounding area;				
MU 29	264.601(c)(5)		The existing quality of air, including other sources of contamination and their cumulative impact on air;				
MU 30	264.601(c)(6)		The potential for health risks due to exposure;				
MU 31	264.601(c)(7)		The potential for damage to animals, wildlife, crops, vegetation, and physical structures.				
<b>(MU 32) MONITORING, ANALYSIS, INSPECTION, RESPONSE, REPORTING, AND CORRECTIVE ACTION - 264.602</b>							
Monitoring, testing, analytical data, inspection, response, and reporting procedures and frequencies must be in compliance with 264.601, 264.15, 264.33, 264.75, 264.76, 264.77, and 264.101 as well other additional requirements.							
<b>(MU 33) POST-CLOSURE CARE - 264.603</b>							
Must comply with 264.601 during the post-closure care period.							
The post-closure plan under 264.118 must specify the procedures to satisfy this requirement.							

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<p><b>APPLICATION REVIEW CHECKLIST</b></p> <p><b>LAND PROTECTION DIVISION HAZARDOUS WASTE PROGRAM</b></p>  <p><b>OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY</b></p>	<p>Facility Name: _____</p> <p>Facility ID No.: _____ ODEQ Permit No.: _____ Reference No.: _____</p> <p>Application Type: _____ Date: _____ (New/Modify/Renewal)</p> <hr/> <p>Administrative Reviewer: _____ Start Date: _____ Completion Date: _____</p> <p>Technical Reviewer: _____ Start Date: _____ Completion Date: _____</p> <p>Issuance Deadline: _____</p>	<p>TRANSFER STATIONS</p>  <p>ODEQ Form Number XXX - XXX</p>
		<p>Shaded areas for ODEQ use only</p>

ITEM #	FEDERAL REGULATIONS 40 CFR	STATE REGULATIONS OAC 252:205	GENERAL DESCRIPTION	INFO LOCATION	ADMIN. COMPLETE	TECHNICALLY COMPLETE	REMARKS
					YES/NO/NA	YES/NO/NA	

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ITEM #	FEDERAL REGULATIONS 40 CFR	STATE REGULATIONS OAC 252:205	GENERAL DESCRIPTION	INFO LOCATION	ADMIN. COMPLETE	TECHNICALLY COMPLETE	REMARKS
					Yes/No/NA	YES/NO/NA	
<b>DEFINITIONS - 252:205-1-2</b>							
<p>“Transfer facility”: any transportation related facility, including loading docks, parking areas, storage areas and other similar areas where shipments of hazardous waste are held during the normal course of transportation;</p> <p>“Transfer station”: any transfer facility where hazardous waste is transferred from one container or tank to another or where hazardous wastes in separate containers or tanks is combined.</p>							
<b>TRANSFER STATIONS - 252:205-15</b>							
TS 1		15-1	<b>Applicability and consideration of other laws</b>				
TS 2		15-1(a)	<b>Types of waste handled.</b> The owner/operator of a transfer station which handles hazardous waste or both hazardous and solid wastes must comply with this Subchapter.				
TS 3		15-1(b)	<b>Solid waste permits.</b> The owner/operator of a hazardous waste transfer station operating or proposing to operate under an approved Plan which includes compliance with 252:205-15-2© is not subject to solid waste permitting rules.				
TS 4		15-1(c)	<b>RCRA permits.</b> The rules of this Subchapter do not supersede any obligations to obtain a hazardous waste permit.				

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					YES/NO/NA	YES/NO/NA	
TS 5		15-1(d)	<p><b>Exempt activities.</b> The following are exempt from this Subchapter:</p> <p>(1) Activities of HW generators to consolidate waste on-site prior to shipment;</p> <p>(2) Activities regulated by HW permits which specifically address compliance with the plan requirement identified in 2521:20515-2(b);</p> <p>(3) Activities immediately responding to a discharge of HW or material which becomes a HW when discharged or an imminent and substantial threat of a discharge of HW.</p>				
TS 6		15-2	<b>Development and Operations Plan</b>				
TS 7		15-2(a)	<b>Plan required.</b> No person may construct or operate a HW transfer station without ODEQ approval of a Transfer Station Development and Operations Plan (Plan).				
TS 8		15-2(b)	<b>Content.</b> The owner/operator of a transfer station shall identify and discuss all the HW which may be managed at the Transfer Station and the handling of any solid waste to be managed as non-hazardous. The following shall be submitted:				
		15-2(b)(1)	Engineering plans for the construction design and a detailed descriptions of all buildings, ramps, on-site roads, waste transfer and holding areas, and equipment used on-site;				

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					YES/NO/NA	YES/NO/NA	
		15-2(b)(2)	<p>A description of all proposed Transfer Station solid and HW handling activities including:</p> <ul style="list-style-type: none"> <li>(A) estimates of waste holding capacities</li> <li>(B) description of wastes, tanks and containers;</li> <li>(C) hours of operation;</li> <li>(D) waste transfer and bulking procedures including associated compatibility analyses;</li> <li>(E) provisions to assure that solid wastes destined for disposal in non-HW facilities are not co-mingled with HW; and</li> <li>(F) truck and equipment cleaning and decontamination procedures.</li> </ul>				
TS 9		15-2(b)(3)	A description of all safety, training and security provisions including site access and security provisions, site inspections, and personnel training in accordance with 40 CFR 264.14 through 264.17. The plan shall include a contingency and site safety plan that meets the requirements of 40 CFR 264, Subparts C and D.				
TS 10		15-2(b)(4)	A description of spill control, containment, and remedial measures;				
TS-11		15-2(b)(5)	A design and operations plan for waste transfer and unloading activities demonstrating that those activities are limited to areas with adequate secondary containment structures to prevent releases to soil, surface water or GW; and				

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					YES/NO/NA	YES/NO/NA	
TS 12		15-2(b)(6)	Information on closure and mechanisms to meet the financial assurance and liability requirements of 40 CFR 264, Subpart G and H.				
TS 13		15-2(c)	The owner/operator of a HW transfer station which handles solid waste destined for management at a solid waste facility must also demonstrate compliance with applicable rules in OAC 252:520, including location standards, if HW Transfer Station Development and Operations Plan is to be used in lieu of a solid waste permit.				
TS 14		15-3	<b>Design and operation</b> All transfer stations shall be designed and operated to minimize releases to the air from waste transfer and unloading activities. Activities shall be conducted only in areas protected by secondary containment structures approved in the Plan.				
TS 15		15-4	<b>Modifications</b>				
TS 16		15-4(a)	A proposed modification to an approved Plan which would alter the design or operation of a transfer station shall be requested in writing and shall not be implemented without the ODEQ's prior approval.				
TS 17		15-4(b)	The ODEQ may modify an approved Plan to require compliance with current rules.				
TS 18		15-4(c)	Modification to approved Plans shall be according to 40 CFR 270.42.				
TS 19		15-5	<b>Exclusionary siting criteria</b>				
TS 20		15-5(a)	The siting criteria for locating HW Transfer Stations are the same as those for any HW treatment, disposal, recycling, or storage facility in 252:205-11-2 and 27A O.S. § 2-7-111.				

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					YES/NO/NA	YES/NO/NA	
TS 21		15-5(b)	The siting criteria for locating HW Transfer Stations which also handle solid wastes destined for management at a solid waste facility include those listed in Subchapter 11 and, in addition, those in OAC 252:520				
TS 22		15-6	<b>No endangerment</b> All owners/operators of Transfer Stations shall comply with 252:205-9-1.				

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<p><b>APPLICATION REVIEW CHECKLIST</b></p> <p><b>LAND PROTECTION DIVISION HAZARDOUS WASTE PROGRAM</b></p>  <p><b>OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY</b></p>	Facility Name: _____ Facility ID No.: _____ ODEQ Permit No.: _____ Reference No.: _____ Application Type: _____ Date: _____ (New/Modify/Renewal)	40 CFR 264 Subpart M  <b>LAND TREATMENT</b>
	Administrative Reviewer: _____ Start Date: _____ Completion Date: _____ Technical Reviewer: _____ Start Date: _____ Completion Date: _____ Issuance Deadline: _____	ODEQ Form Number XXX - XXX
		Shaded areas for ODEQ use only

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					YES/NO/NA	YES/NO/NA	
<b>APPLICABILITY - 264.270</b>  To all facilities that treat or dispose of hazardous wastes in land treatment units (LTUs), except as 264.1 provides otherwise							
<b>TREATMENT PROGRAM - 264.271</b>							
LTU 1	264.271(a)		<b>Hazardous constituents in/on the treatment zone must be degraded, transformed, or immobilized within the treatment zone.</b>  The Agency will specify the elements of the treatment program to include:				

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					YES/NO/NA	YES/NO/NA	
LTU 2	264.271(a)(1)		Wastes that are capable of being treated based on a demonstration under 264.272;				
LTU 3	264.271(a)(2)		Design and operations to maximize the success of degradation, transformation, and immobilization processes in accordance with 264.273(a); and				
LTU 4	264.271(a)(3)		Unsaturated zone monitoring as required in 264.278				
LTU 5	264.271(b)		<b>The Agency will specify the hazardous constituents (Appendix VIII of 261 of this chapter) that must be degraded, transformed, or immobilized.</b>				
LTU 6	264.271(c)		<b>The Agency will specify the vertical and horizontal dimensions of the treatment zone.</b>  The treatment zone is the portion of the unsaturated zone below and including the land surface in which treatment conditions are to be maintained. Its maximum depth must be:				
LTU 7	264.271(c)(1)		No more than 1.5 meters (5 feet) from the initial soil surface; and				
LTU 8	264.271(c)(2)		More than 1 meter (3 feet) above the seasonal high water table.				
<b>TREATMENT DEMONSTRATION - 264.272</b>							
LTU 9	264.272(a)		<b>Prior to application of waste, the facility must demonstrate the hazardous constituents of each waste can be completely degraded, transformed, or immobilized in the treatment zone.</b>				

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					YES/NO/NA	YES/NO/NA	
LTU 10	264.272(b)		<p>The facility may use field tests, laboratory analyses, available data, or operating data.</p> <p>The facility must obtain a permit under 270.63 if it conducts field tests or laboratory analyses to make demonstration req. Under paragraph (a) of this section. The Agency will specify the testing, analytical, design, and operating requirements to meet paragraph (c) of this section.</p>				
LTU 11	264.272(c)		<p>Any field test or laboratory analysis conducted under paragraph (a) of this section must:</p>				
LTU 12	264.272(c)(1)		<p>Accurately simulate the characteristics and operating conditions including:</p> <ul style="list-style-type: none"> <li>(i) The characteristics of the waste;</li> <li>(ii) The climate;</li> <li>(iii) The topography of the surrounding area;</li> <li>(iv) The characteristics of the soil in the treatment zone (including depth); and</li> <li>(v) The operating practices.</li> </ul>				
LTU 13	264.272(c)(2)		<p>Show that hazardous constituents to be tested will be completely degraded, transformed, or immobilized in the treatment zone.</p>				

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					YES/NO/NA	YES/NO/NA	
LTU 14	264.272(c)(3)		Be conducted in a manner that protects human health and the environment considering: (i) The characteristics of the waste to be tested; (ii) The operating and monitoring measures taken during testing; (iii) The test duration; (iv) The volume of waste used in the test; (v) In field tests, the potential for migration of hazardous constituents to groundwater or surface water.				
<b>DESIGN AND OPERATING REQUIREMENTS - 264.273</b> The Agency will specify how the facility will design, construct, operate, and maintain the land treatment unit in compliance with this section.							
LTU 15	264.273(a)		<b>The facility must design, construct, operate, and maintain the unit to:</b>  <b>maximize the degradation, transformation and immobilization of hazardous constituents in the treatment zone; and</b>  <b>be in accord with all design and operating conditions that were used the demonstration under 264.272.</b>  The Agency will specify in the permit:				
LTU 16	264.273(a)(1)		The rate and method of waste application to the treatment zone;				
LTU 17	264.273(a)(2)		Measures to control soil pH;				
LTU 18	264.273(a)(3)		Measures to enhance microbial or chemical reactions; and				

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					YES/NO/NA	YES/NO/NA	
LTU 19	264.273(a)(4)		Measures to control the moisture content of the treatment zone.				
LTU 20	264.273(b)		The facility must design, construct, operate, and maintain the treatment zone to minimize run-off during the active life.				
LTU 21	264.273(c)		The facility must design, construct, operate, and maintain a run-on control system to prevent flow onto the treatment zone during peak discharge (at least a 25-year storm).				
LTU 22	264.273(d)		The facility must design, construct, operate, and maintain a run-off management system to collect and control at least the water volume from a 24-hour, 25-year storm.				
LTU 23	264.273(e)		Collection facilities of the run-on and run-off systems must be emptied or managed expeditiously after each storm to maintain the design capacity of the system.				
LTU 24	264.273(f)		The facility must control wind dispersal.				
LTU 25	264.273(g)		The facility must inspect the unit after each storm and weekly to detect:				
LTU 26	264.273(g)(1)		Deterioration, malfunctions, or improper operation of run-on and run-off systems; and				
LTU 27	264.273(g)(2)		Improper functioning of wind dispersal control measures.				
[RESERVED] - 264.274 - 264.275							
FOOD-CHAIN CROPS - 264.276							
The Agency may allow growing food-chain crops in/on the treatment zone only if the facility satisfies the conditions of this section. The Agency will specify the specific food-chain crops that may be grown.							

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					YES/NO/NA	YES/NO/NA	
LTU 28	264.276(a)(1)		<p>The facility must demonstrate prior to planting no risk to human health by growing such crops in/on the treatment zone. Must demonstrate that hazardous constituents other than cadmium:</p> <p>(i) Will not be transferred to the food or the crop by plant uptake or direct contact, and will not be ingested by food-chain animals; or</p> <p>(ii) Will not occur in greater concentrations in the crops grown on the treatment zone than crops grown on untreated soils under similar conditions in the same regions</p>				
LTU 29	264.276(a)(2)		The facility must make the demonstration prior to the planting of crops for all constituents in appendix VIII of 261 that are expected to be in, or derived from, waste placed in/on the treatment zone.				
LTU 30	264.276(a)(3)		<p>In making demonstration, the facility may use field tests, greenhouse studies, available data, or operating data (existing units), and must:</p> <p>(i) Base the demonstration on conditions similar to those present in the treatment zone including soil characteristics, specific wastes, application rates and methods, and crops; and</p> <p>(ii) Describe the procedures used in conducting any tests including sample selection criteria, sample size, analytical methods, and statistical procedures.</p>				
LTU 31	264.276(a)(4)		The facility must obtain a permit for conducting field tests or greenhouse studies for the demonstration.				
LTU 32	264.276(b)		If the wastes contain cadmium, the facility must comply with the following conditions:				

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					YES/NO/NA	YES/NO/NA	
LTU 33	264.276(b)(1)		<p>(i) The pH of the waste and soil mixture must be 6.5 or greater when applied, except waste with cadmium concentration at 2 mg/kg (dry weight) or less;</p> <p>(ii) The annual application of cadmium must not exceed 0.5 kg/ha for production of tobacco, leafy vegetables, or root crops for human consumption. For other food chain crops, the annual application of cadmium must not exceed:</p> <p style="padding-left: 40px;">Present to 6/30/84 ..... 2.0 kg/ha</p> <p style="padding-left: 40px;">7/1/84 to 12/31/86 ..... 1.25 kg/ha</p> <p style="padding-left: 40px;">Beginning 1/1/87 ..... 0.5 kg/ha</p> <p>(iii) The cumulative application of cadmium must not exceed 5 kg/ha if the waste and soil mixture has a pH of less than 6.5; and</p> <p>(iv) If the waste and soil mixture has or is maintained at a pH of 6.5 or greater during crop growth, the cumulative application of cadmium must not exceed:</p> <p style="padding-left: 40px;">5 kg/ha if soil cation exchange capacity (CEC) is less than 5 meq/100g;</p> <p style="padding-left: 40px;">10 kg/ha if soil CEC is 5-15 meq/100g;</p> <p style="padding-left: 40px;">20 kg/ha if soil CEC is greater then 15 meq/100g; or</p>				

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					YES/NO/NA	YES/NO/NA	
LTU 34	264.276(b)(2)		(i) Animal feed must be the only food-chain crop produced; (ii) The pH of the waste and soil mixture must be 6.5 or greater at the time of application or planting, whichever later, and this pH level must be maintained during growth; (iii) There must be an operating plan demonstrating how the animal feed will be distributed to preclude ingestion by humans. The operating plan must describe safeguards against possible health hazards from cadmium entering the food chain, which may result from alternative land uses; and (iv) Future property owners must be notified by a stipulation in the land record or property deed which states that the property has received waste at high cadmium application rates and that food-chain crops must not be grown except in compliance with paragraph (b)(2) of this section.				
[RESERVED] - 264.277							
UNSATURATED ZONE MONITORING - 264.278							
A facility subject to this subpart must establish an unsaturated zone monitoring program to discharge the following responsibilities:							
LTU 35	264.278(a)		The facility must monitor the soil and soil pore liquid to determine whether hazardous constituents migrate out of the treatment zone.				
LTU 36	264.278(a)(1)		The Agency will specify the hazardous constituents to be monitored under 264.271(b).				

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					YES/NO/NA	YES/NO/NA	
LTU 37	264.278(a)(2)		The Agency may require monitoring for principal hazardous constituents (PHCs) in lieu of the constituents under 264.271(b).				
LTU 38	264.278(b)		<b>The facility must monitor the unsaturated zone using soil core and soil pore liquid monitoring using devices such as lysimeters.</b>  <b>The monitoring system must consist of sufficient sampling points at appropriate locations and depths to yield samples that:</b>				
LTU 39	264.278(b)(1)		Represent the quality of unaffected background soil-pore liquid quality and chemical make up of the soil; and				
LTU 40	264.278(b)(2)		Indicate the quality of soil-pore liquid and the chemical make up of the soil below the treatment zone.				
LTU 41	264.278(c)		<b>The facility must establish background value for each monitored hazardous constituent under paragraph (a) of this section.</b>  <b>The permit will specify a value or procedures to be used to calculate background values.</b>				
LTU 42	264.278(c)(1)		Background soil values may be based on a one-time sampling at a background plot having characteristics similar to the treatment zone.				
LTU 43	264.278(c)(2)		Background soil-pore liquid values must be based on at least quarterly sampling for one year at a background plot similar to the treatment zone.				
LTU 44	264.278(c)(3)		The facility must express all background values in a form necessary for the determination of statistically significant increases under paragraph (f) of this section.				

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					YES/NO/NA	YES/NO/NA	
LTU 45	264.278(c)(4)		To determine background values, the facility must use an unsaturated zone monitoring system in compliance with paragraph (b)(1) of this section.				
LTU 46	264.278(d)		<b>The facility must conduct soil monitoring and soil-pore liquid monitoring immediately below the treatment zone.</b> <b>The Agency will specify the frequency and timing.</b> <b>The facility must express the results of the monitoring in a form necessary for the determination of statistically significant increases under paragraph (f) of this section.</b>				
LTU 47	264.278(e)		<b>The facility must use consistent sampling and analysis procedures that are designed to provide a reliable indication of soil-pore liquid quality and chemical make up of the soil below the treatment zone.</b>  At the minimum, the facility must implement procedures and techniques for:				
LTU 48	264.278(e)(1)		Sample collection;				
LTU 49	264.278(e)(2)		Sample preservation and shipment;				
LTU 50	264.278(e)(3)		Analytical procedures; and				
LTU 51	264.278(e)(4)		Chain of custody control.				
LTU 52	264.278(f)		<b>The facility must determine whether there is a statistically significant change over the background for any hazardous constituent under paragraph (a) of this section below the treatment zone each time the monitoring is conducted under paragraph (d) of this section.</b>				
LTU 53	264.278(f)(1)		In determining a statistically significant increase, the facility must compare the value of each constituent under paragraph (d) of this section to the background value.				

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					YES/NO/NA	YES/NO/NA	
LTU 54	264.278(f)(2)		The facility must determine whether there is a statistically significant increase below the treatment zone within a reasonable period after sampling.  The Agency will specify the time period in the permit.				
LTU 55	264.278(f)(3)		The facility must use a statistical procedure that provides reasonable confidence that migration from the treatment zone will be identified.  The Agency will specify a statistical procedure in the permit that:  (i) Is appropriate to establish background values; and  (ii) Provides a balance between false identification of and failure to identify migration from the treatment zone.				
LTU 56	264.278(g)		<b>If there is a statistically significant increase of hazardous constituents below the treatment zone, the facility must:</b>				
LTU 57	264.278(g)(1)		Notify the Agency in writing within 7 days. The notification must indicate what constituents.				
LTU 58	264.278(g)(2)		Submit a permit modification application, within 90 days, to modify the operating practices to maximize the success of degradation, transformation, or immobilization processes in the treatment zone.				

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					YES/NO/NA	YES/NO/NA	
LTU 59	264.278(h)		<p>If there is a statistically significant increase of hazardous constituents below the treatment zone, the facility may demonstrate that the increase is from other sources or from error in sampling, analysis, or evaluation.</p> <p>Making a demonstration does not relieve the facility from the requirement of submitting a permit modification unless the demonstration is approved by the Agency.</p> <p>In making a demonstration, the facility must:</p>				
LTU 60	264.278(h)(1)		Notify the Agency in writing within 7 days that the facility intends to make a demonstration;				
LTU 61	264.278(h)(2)		Submit a report, within 90 days, demonstrating that the increase is from other sources or from error in sampling, analysis, or evaluation;				
LTU 62	264.278(h)(3)		Submit a permit modification application, within 90 days, to make appropriate changes to the monitoring program; and				
LTU 63	264.278(h)(4)		Continue to monitor in accordance with the program established under this section.				
<b>RECORD KEEPING - 264.279</b>							
The facility must include hazardous waste application dates and rates in the operating record under 264.73							
<b>CLOSURE AND POST-CLOSURE CARE - 264.280</b>							
LTU 64	264.280(a)		<b>During the closure period, the facility must:</b>				
LTU 65	264.280(a)(1)		Continue all operations under 264.273(a), except measures inconsistent with paragraph (a)(8) of this section;				

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					YES/NO/NA	YES/NO/NA	
LTU 66	264.280(a)(2)		Continue all operations to minimize run-off under 264.273(b);				
LTU 67	264.280(a)(3)		Maintain the run-on control system under 264.273(c);				
LTU 68	264.280(a)(4)		Maintain the run-off management system under 264.273(d);				
LTU 69	264.280(a)(5)		Control wind dispersal if required under 264.273(f);				
LTU 70	264.280(a)(6)		Continue to comply with regulations concerning growth of food-chain crops under 264.276;				
LTU 71	264.280(a)(7)		Continue unsaturated zone monitoring (264.278), except soil-pore liquid monitoring may be terminated 90 days after the last application; and				
LTU 72	264.280(a)(8)		Establish a vegetative cover on closed portion. The cover must be capable of growing without extensive maintenance.				
LTU 73	264.280(b)		<b>To comply with 264.115, when closure is completed, facility may submit a certification by an independent soil scientist (instead of engineer) which identifies closure in accordance with the closure plan.</b>				
LTU 74	264.280(c)		<b>During the post-closure care period, the facility must:</b>				
LTU 75	264.280(c)(1)		Continue all operations to enhance treatment that are consistent with other post-closure care activities;				
LTU 76	264.280(c)(2)		Maintain a vegetative cover over closed portions;				
LTU 77	264.280(c)(3)		Maintain the run-on control system under 264.273(c);				
LTU 78	264.280(c)(4)		Maintain the run-off management system under 264.273(d);				
LTU 79	264.280(c)(5)		Control wind dispersal if required under 264.273(f);				
LTU 80	264.280(c)(6)		Continue to comply with regulations concerning growth of food-chain crops under 264.276;				

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					YES/NO/NA	YES/NO/NA	
LTU 81	264.280(c)(7)		Continue unsaturated zone monitoring (264.278), except soil-pore liquid monitoring may be terminated 90 days after the last application; and				
LTU 82	264.280(d)		<p>The facility is not subject to paragraphs (a)(8) and (c) of this section if hazardous constituents in the treatment zone soil do not exceed background value using statistics in paragraph (d)(3) of this section.</p> <p>The facility may submit such demonstration at any time during the closure and post-closure care periods.</p> <p>For the purposes of this paragraph:</p>				
LTU 83	264.280(d)(1)		<p>The facility must establish background soil values and determine whether there is a statistically significant increase for all hazardous constituents in the permit under 264.271(b).</p> <p>(i) Background soil values may be based on one-time sampling of a background plot having characteristics similar to those of the treatment zone.</p> <p>(ii) The facility must express background and hazardous constituent values in statistical form to determine increase under paragraph (d)(3) of this section.</p>				
LTU 84	264.280(d)(2)		The facility must take sufficient sampling points at appropriate location and depth that have not been affected by the treatment zone.				

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					YES/NO/NA	YES/NO/NA	
LTU 85	264.280(d)(3)		In determining a statistically significant increase, the facility must compare the value of each constituent in the treatment zone to the background value using a statistical procedure that provides reasonable confidence that constituent presence in the treatment zone will be identified.  The facility must use a statistical procedure that:  (i) Is appropriate to establish background values; and  (ii) Provides a balance between false identification of and failure to identify presence in the treatment zone.				
LTU 86	264.280(e)		<b>The facility is not subject to Subpart F if the facility satisfies paragraph (d) of this section and if unsaturated zone monitoring under 264.278 indicates that hazardous constituents have not migrated beyond the treatment zone during the active life.</b>				
<b>SPECIAL REQUIREMENTS FOR IGNITABLE OR REACTIVE (IR) WASTE - 264.281</b>							
The facility must not apply IR waste to the treatment zone unless the waste and the treatment zone meet 40 CFR 268, and:							
LTU 87	264.281(a)		<b>The waste is immediately incorporated into the soil so that:</b>				
LTU 88	264.281(a)(1)		The resulting waste, mixture, or dissolution no longer meets IR definition under 261.21 or 261.23; and				
LTU 89	264.281(a)(2)		264.17(b) is complied with; or				
LTU 90	264.281(b)		<b>The waste is managed to be no longer IR.</b>				

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ITEM #	FEDERAL REGULATIONS 40 CFR	STATE REGULATIONS OAC 252:205	GENERAL DESCRIPTION	INFO LOCATION	ADMIN. COMPLETE	TECHNICALLY COMPLETE	REMARKS
					YES/NO/NA	YES/NO/NA	
[LTU 91] SPECIAL REQUIREMENTS FOR INCOMPATIBLE WASTES - 264.282							
The facility must not place incompatible wastes and materials (appendix V for examples) in the same treatment zone, unless 264.17(b) is complied with.							
SPECIAL REQUIREMENTS FOR HAZARDOUS WASTES F020, F021, F022, F023, F026, AND F027 - 264.283							
LTU 92	264.283(a)		Hazardous wastes F020 through F027 (except F024 and F025) must not be placed in land treatment unit without the Agency approval.  The factors to be considered are:				
LTU 93	264.283(a)(1)		The volume, physical, and chemical characteristics of the wastes, including the potential to migrate to the environment;				
LTU 94	264.283(a)(2)		The attenuative properties of soils or other materials;				
LTU 95	264.283(a)(3)		The mobilizing properties of other materials co-disposed with these wastes; and				
LTU 96	264.283(a)(4)		The effectiveness of additional treatment, design, or monitoring techniques.				
LTU 97	264.283(b)		The Agency may determine additional design, operating, and monitoring requirements are necessary to be protective of human health and the environment.				

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<p><b>APPLICATION REVIEW CHECKLIST</b></p> <p><b>LAND PROTECTION DIVISION HAZARDOUS WASTE PROGRAM</b></p> <p><b>OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY</b></p>	Facility Name: _____ Facility ID No.: _____ ODEQ Permit No.: _____ Reference No.: _____ Application Type: _____ Date: _____ (New/Modify/Renewal)	40 CFR 264 Subpart L  <u>SURFACE IMPOUNDMENT</u>
	Administrative Reviewer: _____ Start Date: _____ Completion Date: _____ Technical Reviewer: _____ Start Date: _____ Completion Date: _____ Issuance Deadline: _____	ODEQ Form Number XXX - XXX  Shaded areas for ODEQ use only

ITEM #	FEDERAL REGULATIONS 40 CFR's	STATE REGULATIONS OAC 252:200's	GENERAL DESCRIPTION	INFO LOCATION	ADMIN. COMPLETE	TECHNICALLY COMPLETE	REMARKS
					YES/NO/NA	YES/NO/NA	
<b>APPLICABILITY - 264.220</b>  To all facilities that use surface impoundments (SIs) to treat, store, or dispose of hazardous waste except as 264.1 provides otherwise							

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ITEM #	FEDERAL REGULATIONS 40 CFR'S	STATE REGULATIONS OAC 252:200's	GENERAL DESCRIPTION	INFO LOCATION	ADMIN. COMPLETE	TECHNICALLY COMPLETE	REMARKS
					YES/NO/NA	YES/NO/NA	
DESIGN AND OPERATING REQUIREMENTS - 264.221							
SI-1	264.221 (a)		<p>All SI must have liners except as those are covered under paragraph (c) of this section:</p> <p>The liner must be designed, constructed and installed to prevent migration of wastes out the SI during the life of the SI (incl. the closure period).</p> <p>The liner may be of materials that allow wastes to migrate into the liner but not to the environment during the active life of the facility, provided the SI is closed under 264.228(a)(1).</p> <p>For SI to be closed under 264.228(a)(2), the liner must be of materials to prevent wastes from migrating into the liner during the active life of the facility.</p> <p>The liner must be:</p>				
SI-2	264.221(a)(1)		Constructed of materials with chemical properties, sufficient strength and thickness to prevent failure				
SI-3	264.221(a)(2)		Placed upon a sound foundation				
SI-4	264.221(a)(3)		Installed to cover all surroundings that are likely to be in contact with the wastes or leachate				
SI-5	264.221(b)		Exemption from the requirements of paragraph (a) of this section based on a demonstration by the facility. Considerations to grant an exemption include:				
SI-6	264.221(b)(1)		The nature and quantity of wastes				
SI-7	264.221(b)(2)		The proposed alternate design and operation				
SI-8	264.221(b)(3)		The hydrogeologic setting				

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					Yes/No/NA	Yes/No/NA	
SI-9	264.221(b)(4)		All other factors relating to leachate and groundwater				
SI-10	264.221(c)		New SIs after 1/29/92 must have two or more liners and a leachate collection and removal system between such liners				
SI-11	264.221(c)(1)		<p>(i) The liner system must include:</p> <p>(A) A top liner made of materials to prevent migration of hazardous wastes into such liner during the active life and post closure care period</p> <p>(B) A composite bottom liner consisting of two components: a geomembrane and a 3-foot compacted soil with hydraulic conductivity of no more than <math>1 \times 10^{-7}</math> cm/sec.</p> <p>(ii) The liners must comply with paragraphs (a)(1), (2), and (3) of this section</p>				
SI-12	264.221(c)(2)		<p>A leak detection system, at a minimum must be:</p> <p>(i) Constructed with a bottom slope of 1% or more</p> <p>(ii) Constructed of granular drainage materials with a minimum hydraulic conductivity of <math>1 \times 10^{-1}</math> cm/sec, a minimum thickness of 12 inches; or a geonet drainage materials with a minimum transmissivity of <math>3 \times 10^{-4}</math> m<sup>2</sup>/sec</p> <p>(iii) Constructed of materials with chemical resistance and strength</p> <p>(iv) Designed and operated to minimize clogging</p> <p>Constructed with sumps and liquid removal systems that are capable of measuring liquids present and removed</p>				

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					YES/NO/NA	YES/NO/NA	
SI-13	264.221(c)(3)		The facility shall collect and remove liquids in the sumps				
SI-14	264.221(c)(4)		The leak detection system must not be adversely affected by groundwater				
SI-15	264.221(d)		Approval of alternate design or operating practices to those specified in paragraph (c) of this section, if they:				
SI-16	264.221(d)(1)		Will prevent the migration of any hazardous constituent into the environment as effectively as those in paragraph (c) of this section; and				
SI-17	264.221(d)(2)		Will detect leaks through the top liner at least as effectively				
SI-18	264.221(e)		Waiving of the double liner requirement as specified in paragraph (c) of this section for any monofill, if:				
SI-19	264.221(e)(1)		The monofill is from foundry furnace emission controls or metal casting molding sand; and				
SI-20	264.221(e)(2)		(i) (A) The monofill has at least one non-leaking liner (see the detailed definition of liner); (B) The monofill is located more than one-quarter mile from an underground source of drinking water (144.3); and (C) The monofill is in compliance with groundwater monitoring requirements; or (ii) Demonstration to assure that no migration of any hazardous constituent into the environment in the future				
SI-21	264.221(f)		A replacement SI unit is exempt from paragraph (c) of this section, if:				

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					YES/NO/NA	YES/NO/NA	
SI-22	264.221(f)(1)		The existing unit was constructed in compliance with Section 3004 (o)(1)(A)(i) and (o)(5) of RCRA; and				
SI-23	264.221(f)(2)		The liner is functioning as designed				
SI-24	264.221(g)		A SI must be designed, constructed, maintained, and operated to prevent overtopping				
SI-25	264.221(h)		Dikes must have structural integrity to prevent failure				
SI-26	264.221(i)		The Agency will specify in the permit all design and operating practices that are necessary to ensure that the requirements of this section are satisfied				
<b>ACTION LEAKAGE RATE (ALR) - 264.222</b>							
SI-27	264.222(a)		The Agency shall approve an ALR for SI units subject to 264.221(c) or (d). The ALR is the maximum design flow rate that the leak detection system can remove without the fluid head on the bottom liner exceeding 1 foot. The ALR must include an adequate safety margin				
SI-28	264.222(b)		To determine if the ALR has been exceeded, the facility must convert the weekly or monthly flow rate under 264.226(d) to an average daily flow rate (gal/acre/day) for each sump. The average daily flow rate must be calculated weekly during the active life and closure period, and monthly during the post closure care period as under 264.228(b) and 264.226(d)				
<b>RESPONSE ACTION - 264.223</b>							

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					YES/NO/NA	YES/NO/NA	
SI-29	264.223(a)		The facility must have an approved response action plan before receiving wastes. The response action plan at a minimum must be as described in paragraph (b) of this section:				
SI-30	264.223(b)		If the flow rate into the leak detection system exceeds the ALR for any sump, the facility must:				
SI-31	264.223(b)(1)		Notify the Agency in writing within 7 days				
SI-32	264.223(b)(2)		Submit a written assessment to the Agency within 14 days as to the amount of liquids, sources, location, size, cause, and short-term actions taken and planned				
SI-33	264.223(b)(3)		Determine the location, size, and cause of any leak				
SI-34	264.223(b)(4)		Determine whether waste receipt should be ceased or curtailed, whether any waste should be removed, and whether or not the unit should be closed				
SI-35	264.223(b)(5)		Determine any short-term and long-term actions				
SI-36	264.223(b)(6)		Within 30 days after the notification, submit to the Agency the results of analyses in paragraphs (b)(3), (4), and (5) of this section, the results of actions taken, and actions planned. Monthly thereafter, as long as problems still occur, the facility must submit a report summarizing the results of any remedial actions taken and actions planned				
SI-37	264.223(c)		To make the leak and/or remediation determinations in paragraphs (b)(3), (4), and (5) of this section, the facility must:				

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					YES/NO/NA	YES/NO/NA	
SI-38	264.223(c)(1)		(i) Assess the source of liquids and amount of liquids by source  (ii) Conduct a fingerprint of the liquids in the leak detection system to identify the source, location of any leaks, and the hazard and mobility of the liquid  (iii) Assess the potential impact to the environment				
SI-39	264.223(c)(2)		Document why such assessments are not needed				
<b>264.224 - 264.225 [RESERVED]</b>							
<b>MONITORING AND INSPECTION - 264.226</b>							
SI-40	264.226(a)		During construction and installation, liners and cover systems must be inspected for uniformity, damage, and imperfections. Immediately after construction or installation:				
SI-41	264.226(a)(1)		Synthetic liners and covers must be inspected				
SI-42	264.226(a)(2)		Soil-based and admixed liners and covers must be inspected				
SI-43	264.226(b)		While in operation, the facility must inspect weekly and after storms for:				
SI-44	264.226(b)(1)		Deterioration, malfunctions, or improper operation of overtopping control systems				
SI-45	264.226(b)(2)		Sudden drops in the level of the impoundment's contents				
SI-46	264.226(b)(3)		Severe erosion or other signs of deterioration in dikes or other containment devices				

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					YES/NO/NA	YES/NO/NA	
SI-47	264.226(c)		Prior to a permit issuance, and after a period of inactive service (at least 6 months), the facility must obtain a qualified engineer's certification on the structural integrity of the dike. The certification must establish that the dike:				
SI-48	264.226(c)(1)		Will withstand the stress exerted by the wastes				
SI-49	264.226(c)(2)		Will not fail due to scouring or piping				
SI-50	264.226(d)(1)		If the facility must meet the requirements under 264.221(c) or (d), the facility must record the liquids removed from each sump weekly during the active and closure periods				
SI-51	264.226(d)(2)		<p>After the installation of the final cover, the facility must record the liquids removed from each sump monthly.</p> <p>If the liquid level is below the pump operating level for two consecutive months, the amount of liquids in the sump must be recorded quarterly.</p> <p>If the liquid level is below the pump operating level for two consecutive quarters, the amount of liquids in the sump must be recorded semi-annually.</p> <p>If the pump operating level is exceeded on quarterly or semi-annual schedule, the facility must return to monthly schedule.</p>				
SI-52	264.226(d)(3)		"Pump operating level" is a liquid level based on pump activation level, sump dimensions, and level that avoids backup into the drainage layer and minimizes head				
<b>EMERGENCY REPAIRS; CONTINGENCY PLANS - 264.227</b>							
SI-53	264.227(a)		AN SI must be removed from service in accordance with paragraph (b) of this section when:				

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					YES/NO/NA	YES/NO/NA	
SI-54	264.227(a)(1)		The liquid level in the SI drops and the reason for dropping is unknown				
SI-55	264.227(a)(2)		The dike leaks				
SI-56	264.227(b)		When an SI is removed due to paragraph (a) of this section, the facility must:				
SI-57	264.227(b)(1)		Immediately stop all the wastes going into the SI				
SI-58	264.227(b)(2)		Immediately contain any leakage				
SI-59	264.227(b)(3)		Immediately stop the leak				
SI-60	264.227(b)(4)		Take steps to stop or prevent catastrophic failure				
SI-61	264.227(b)(5)		If a leak cannot be stopped, empty the SI				
SI-62	264.227(b)(6)		Notify the Agency in writing within seven days				
SI-63	264.227(c)		As part of the contingency plan, the facility must specify a procedure for complying with paragraph (b) of this section				
SI-64	264.227(d)		No SI that has been removed from service (under this section) may be restored to service unless the SI is repaired and the following steps are taken:				
SI-65	264.227(d)(1)		If due to dike failure, the dike's structural integrity must be recertified in acc. with 264.226(c)				
SI-66	264.227(d)(2)		If due to a sudden drop in liquid level, then: (i) A liner must be installed in compliance with 264.221(a); and (ii) The repaired liner system must be certified by a qualified engineer to meet the specifications in the permit				

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					YES/NO/NA	YES/NO/NA	
SI-67	264.227(e)		A SI that has been removed (under this section) and that is not being repaired must be closed in acc. with 264.228				
<b>CLOSURE AND POST CLOSURE CARE - 264.228</b>							
SI-68	264.228(a)		At closure, the facility must:				
SI-69	264.228(a)(1)		Remove or decontaminate all wastes, containment system, contaminated subsoils, and structures unless 261.3(d) applies.  *** The ODEQ may approve risk-based closure standards as an option for closure of a unit if requested by the facility.				
SI-70	264.228(a)(2)		(i) Eliminate free liquids (ii) Stabilize remaining wastes (iii) Cover the SI with a final cover designed and constructed to:  (A) Minimize the migrations of liquids (B) Minimize maintenance (C) Promote drainage and minimize erosion (D) Accommodate settling and subsidence (E) Have a permeability equal or lesser than the permeability of the bottom liner				
SI-71	264.228(b)		If close in place, the facility must comply with post-closure req. in 264.117 through 120, including post closure care requirements. The facility must:				
SI-72	264.228(b)(1)		Maintain the final cover				

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					YES/NO/NA	YES/NO/NA	
SI-73	264.228(b)(2)		Maintain and monitor the leak detection system in acc. with 264.221(c)(2)(iv) and (3) and 264.226(d), and comply with all leak detection system requirements				
SI-74	264.228(b)(3)		Maintain and monitor the groundwater monitoring system and comply with all req. of Subpart F				
SI-75	264.228(b)(4)		Prevent run on and run off				
SI-76	264.228(c)(1)		<p>If a SI is closed in acc. with paragraph (a)(1) of this section, and the SI does not comply with liner req. of 264.221(a) and is not exempt from them in acc. with 264.221(b), then:</p> <p>(i) The closure plan under 264.112 must include a plan in compliance with paragraph (a)(1) of this section and a contingency plan in compliance with paragraph (a)(2) of this section; and</p> <p>(ii) The facility must prepare a contingent post-closure plan under 264.118 for complying with paragraph (b) of this section</p>				
SI-77	264.228(c)(2)		Cost estimates under 264.142 and 144 for closure and post closure care including the contingent closure and post closure plans, but excluding the closure cost under paragraph (a)(1) of this section				
<b>SPECIAL REQUIREMENTS FOR IGNITABLE OR REACTIVE (IR) WASTES - 264.229</b>							
IR wastes must not be placed in an SI, unless the waste and SI satisfy all requirements of 40CFR268, and:							
SI-78	264.229(a)		The waste is treated before or immediately after placement in the SI so that:				
SI-79	264.229(a)(1)		The resulting waste no longer meets the definition of IR under 261.21 or 23; and				

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					YES/NO/NA	YES/NO/NA	
SI-80	264.229(a)(2)		Section 264.17(b) is complied with; or				
SI-81	264.229(b)		The waste is managed to be protected from any material or conditions which may cause it to ignite or react; or				
SI-82	264.229(c)		The SI is used solely for emergencies.				
<b>SPECIAL REQUIREMENTS FOR INCOMPATIBLE WASTES - 264.230</b>							
Incompatible wastes must not be placed in the same SI, unless 264.17(b) is complied with.							
<b>SPECIAL REQUIREMENTS FOR HAZARDOUS WASTES F020 THROUGH F027 - 264.231</b>							
SI-83	264.231(a)		Hazardous wastes F027 through F027 must not be placed in an SI unless a management plan for these wastes is approved by the Agency. Factors to be considered are:				
SI-84	264.231(a)(1)		The volume, physical, and chemical characteristics of the wastes, including the potential to migrate to the environment;				
SI-85	264.231(a)(2)		The attenuative properties of the soils or other materials;				
SI-86	264.231(a)(3)		The mobilizing properties of other materials co-disposed with these wastes; and				
SI-87	264.231(a)(4)		The effectiveness of additional treatment, design, or monitoring techniques				
SI-88	264.231(b)		The Agency may impose additional requirements in order to reduce the possibility of migration of these wastes to the environment				

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<b>APPLICATION REVIEW CHECKLIST</b>  <b>LAND PROTECTION DIVISION</b> <b>HAZARDOUS WASTE PROGRAM</b>  <b>OKLAHOMA DEPARTMENT</b> <b>OF</b> <b>ENVIRONMENTAL QUALITY</b>	Facility Name: _____ Facility ID No.: _____ ODEQ Permit No.: _____ Reference No.: _____ Application Type: _____ Date: _____ (New/Modify/Renewal)	40 CFR 264 Subpart BB  <b>AIR EMISSION</b> <b>STANDARDS FOR</b> <b>EQUIPMENT LEAKS</b>
	Administrative Reviewer: _____ Start Date: _____ Completion Date: _____ Technical Reviewer: _____ Start Date: _____ Completion Date: _____ Issuance Deadline: _____	ODEQ Form Number XXX - XXX
	Shaded areas for ODEQ use only	

ITEM #	FEDERAL REGULATIONS 40 CFR	STATE REGULATIONS OAC 252:205	GENERAL DESCRIPTION	INFO LOCATION	ADMIN. COMPLETE	TECHNICALLY COMPLETE	REMARKS
					YES/NO/NA	YES/NO/NA	
<b>APPLICABILITY - 264.1050</b>							
BB 1	264.1050(a)		Applies to facilities that treat, store, or dispose of hazardous wastes (except as provided in 264.1).				
BB 2	264.1050(b)		Except as in 264.1064(k), this subpart applies to equipment that contains or contacts hazardous wastes with organic concentrations of at least 10 percent by weight that are managed in:				
BB 3	264.1050(b)(1)		Units that are subject to the permitting requirements of part 270, or				

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					YES/NO/NA	YES/NO/NA	
BB 4	264.1050(b)(2)		Hazardous waste recycling units that are located on hazardous waste management facilities otherwise subject to the permitting requirements of part 270.				
BB 5	264.1050(c)		<b>If the facility with equipment subject to 264.1052 through 264.1065 has received a permit under section 3005 of RCRA prior to December 21, 1990, 264.1052 through 264.1065 must be incorporated when the permit is reissued under 124.15 or reviewed under 270.50.</b>				
BB 6	264.1050(d)		Each piece of applicable equipment shall be marked to be distinguished readily from other pieces of equipment.				
BB 7	264.1050(e)		Equipment that is in vacuum service is excluded from the requirements of 264.1052 to 264.1060 if it is identified as required in 264.1064(g)(5).				
<b>(BB 8) DEFINITIONS - 264.1051</b>							
Definitions are given in 264.1031, the Act, and parts 260-266.							
[See the end of this module]							
<b>STANDARDS: PUMPS IN LIGHT LIQUID SERVICE - 264.1052</b>							
BB 9	264.1052(a)(1)		Each pump shall be monitored monthly to detect leaks by the methods in 264.1063(b), except as provided in paragraphs (d), (e), and (f) of this section.				
BB 10	264.1052(a)(2)		Each pump shall be visually inspected each week for indications of liquids dripping from the pump seal.				
BB 11	264.1052(b)(1)		If an instrument reading of 10,000 ppm or greater is measured, a leak is detected.				
BB 12	264.1052(b)(2)		If there are indications of liquids dripping from the pump seal, a leak is detected.				

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					YES/NO/NA	YES/NO/NA	
BB 13	264.1052(c)(1)		When a leak is detected, it shall be repaired <ul style="list-style-type: none"> <li>• as soon as practicable,</li> <li>• but not later than 15 days after detection,</li> </ul> except as provided in 264.1059.				
BB 14	264.1052(c)(2)		A first attempt at repair shall be made no later than 5 calendar days after each leak is detected.				
BB 15	264.1052(d)		<b>Each pump with a dual mechanical seal system that includes a barrier fluid system is exempt from the requirements of paragraph (a) of this section, provided the following requirements are met:</b>				
BB 16	264.1052(d)(1)		Each dual mechanical seal system must be: <ul style="list-style-type: none"> <li>(i) Operated with the barrier fluid pressure at all times greater than the pump stuffing box pressure, or</li> <li>(ii) Equipped with a barrier fluid degassing reservoir connected by a closed-vent system to a control device that complies with 264.1060, or</li> <li>(iii) Equipped with a system that purges the barrier fluid into a hazardous waste stream with no detectable emissions.</li> </ul>				
BB 17	264.1052(d)(2)		The barrier fluid system must not be a hazardous waste with organic concentrations 10 percent or greater by weight.				
BB 18	264.1052(d)(3)		Each barrier fluid system must have a sensor to detect the failure of the seal system, the barrier fluid system, or both.				
BB 19	264.1052(d)(4)		Each pump must be visually inspected each week for indications of liquids dripping from the pump seals.				

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					YES/NO/NA	YES/NO/NA	
BB 20	264.1052(d)(5)		(i) Each sensor in paragraph (d)(3) of this section must <ul style="list-style-type: none"> <li>• be checked daily or</li> <li>• be equipped with an audible alarm that must be checked monthly.</li> </ul> (ii) The facility must determine a criterion that indicates failure of the seal system, the barrier fluid system, or both.				
BB 21	264.1052(d)(6)		(i) If there are indications of liquids dripping from the pump seal or the sensor indicates failure of the seal system, the barrier fluid system, or both based on criterion in paragraph (d)(5)(ii) of this section, a leak is detected.           (ii) When a leak is detected, it shall be repaired <ul style="list-style-type: none"> <li>• as soon as practicable,</li> <li>• but not later than 15 days after detection, except as provided in 264.1059.</li> </ul> (iii) A first attempt at repair shall be made no later than 5 calendar days after each leak is detected.				
BB 22	264.1052(e)		<b>Any designated pump, as described in 264.1064(g)(2), for no detectable emissions (less than 500 ppm above background) is exempt from requirements in paragraphs (a), (c) and (d) of this section if the pump meets the following requirements:</b>				
BB 23	264.1052(e)(1)		Must have no externally actuated shaft penetrating the pump housing.				
BB 24	264.1052(e)(2)		Must operate with no detectable emissions (instrument reading of less than 500 ppm above background by methods in 264.1063(c)).				
BB 25	264.1052(e)(3)		Must be tested for compliance with paragraph (e)(2) of this section initially upon designation, annually, and at other times as requested by the Agency.				

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					YES/NO/NA	YES/NO/NA	
BB 26	264.1052(f)		Any pump with a closed-vent system capable of capturing and transporting any leakage from the seal(s) to a control device that complies with 264.1060 is exempt from the requirements of paragraphs (a) through (e) of this section.				
<b>STANDARDS: COMPRESSORS - 264.1053</b>							
BB 27	264.1053(a)		Each compressor must have a seal system that includes a barrier fluid system and <ul style="list-style-type: none"> <li>prevents leakage of total organic emissions to the atmosphere,</li> </ul> except as provided in paragraphs (h) and (i) of this section.				
BB 28	264.1053(b)		Each compressor seal system as required in paragraph (a) of this section shall be:				
BB 29	264.1053(b)(1)		Operated with the barrier fluid pressure that is at all times greater than the compressor stuffing box pressure, or				
BB 30	264.1053(b)(2)		Equipped with a barrier fluid system that is connected by a closed-vent system to a control device that complies with 264.1060, or				
BB 31	264.1053(b)(3)		Equipped with a system that purges the barrier fluid into a hazardous waste stream with no detectable emissions.				
BB 32	264.1053(c)		The barrier fluid must not be a hazardous waste with organic concentrations 10 percent or greater by weight.				
BB 33	264.1053(d)		Each barrier fluid system as described in paragraphs (a) through (c) of this section shall be equipped with a sensor that will detect failure of the seal system, barrier fluid system, or both.				

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					YES/NO/NA	YES/NO/NA	
BB 34	264.1053(e)(1)		Each sensor as required in paragraph (d) of this section shall be <ul style="list-style-type: none"> <li>checked daily or</li> <li>equipped with an audible alarm that must be checked monthly</li> <li>checked daily (if the compressor is located in an unmanned plant site).</li> </ul>				
BB 35	264.1053(e)(2)		The facility shall determine a criterion that indicates failure of the seal system, the barrier fluid system, or both.				
BB 36	264.1053(f)		<b>If the sensor indicates failure of the seal system, the barrier fluid system, or both based on the criterion determined under paragraph (e)(2) of this section, a leak is detected.</b>				
BB 37	264.1053(g)(1)		When a leak is detected, it shall be repaired <ul style="list-style-type: none"> <li>as soon as practicable, but</li> <li>not later than 15 days after detection,</li> </ul> except as provided in 264.1059.				
BB 38	264.1053(g)(2)		A first attempt at repair shall be made no later than 5 days after each leak is detected.				
BB 39	264.1053(h)		<b>A compressor is exempt from paragraphs (a) and (b) of this section if it has a closed-vent system capable of capturing and transporting any leakage from the seal to a control device that complies with the requirements of 264.1060, except as provided in paragraph (i) of this section.</b>				
BB 40	264.1053(i)		<b>Any compressor, as described in 264.1064(g)(2), with no detectable emissions (instrument reading of less than 500 ppm above background) is exempt from the requirements of paragraphs (a) through (h) of this section if the compressor:</b>				

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					YES/NO/NA	YES/NO/NA	
BB 41	264.1053(i)(1)		Operates with no detectable emissions (instrument reading of less than 500 ppm above background) as measured by the method in 264.1063(c).				
BB 42	264.1053(i)(2)		Is tested for compliance with paragraph (i)(1) of this section initially upon designation, annually, and at other times as requested by the Agency.				
<b>STANDARDS: PRESSURE RELIEF DEVICES IN GAS/VAPOR SERVICE - 264.1054</b>							
BB 43	264.1054(a)		Except during pressure releases, each pressure relief device in gas/vapor service shall be operated with no detectable emissions (instrument reading of less than 500 ppm above background), as measured by the method in 264.1063(c)				
BB 44	264.1054(b)(1)		After each pressure release, the pressure relief device shall be returned to no detectable emissions condition (instrument reading of less than 500 ppm above background), as soon as practicable, but no later than 5 days after each pressure release, except as provided in 264.1059.				
BB 45	264.1054(b)(2)		No later than 5 days after the pressure release, the pressure relief device shall be monitored to confirm the no detectable emissions condition (instrument reading of less than 500 ppm above background), as measured by the method 264.1063(c).				
BB 46	264.1054(c)		Any pressure relief device with a closed-vent system capable of capturing and transporting leakage from the pressure relief device as described in 264.1060 is exempt from paragraphs (a) and (b) of this section.				
<b>STANDARDS: SAMPLING CONNECTING SYSTEMS - 264.1055</b>							

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					YES/NO/NA	YES/NO/NA	
BB 47	264.1055(a)		Each sampling connection system shall be equipped with a closed purge system or closed-vent system.				
BB 48	264.1055(b)		Each closed-purge system or closed-vent system as required in paragraph (a) shall:				
BB 49	264.1055(b)(1)		Return the purged hazardous waste stream directly to the hazardous waste management process line with no detectable emissions, or				
BB 50	264.1055(b)(2)		Collect and recycle the purged hazardous waste stream with no detectable emissions, or				
BB 51	264.1055(b)(3)		Be designed and operated to capture and transport all the purged hazardous waste stream to a control device that complies with the requirements of 264.1060.				
BB 52	264.1055(c)		In situ sampling systems are exempt from the requirements of paragraphs (a) and (b) of this section.				
<b>STANDARDS: OPEN-ENDED VALVES OR LINES - 264.1056</b>							
BB 53	264.1056(a)(1)		Each open-ended valve or line shall be equipped with a cap, blind flange, plug, or a second valve.				
BB 54	264.1056(a)(2)		The cap, blind flange, plug, or second valve shall seal the open end at all times except during operations requiring hazardous waste stream flow through the open-ended valve or line.				
BB 55	264.1056(b)		Each open-ended valve or line equipped with a second valve shall be operated such that the valve on the hazardous waste stream end is closed before the second valve is closed.				

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					YES/NO/NA	YES/NO/NA	
BB 56	264.1056(c)		When a double block and bleed system is being used, the bleed valve or line may remain open during operations that require venting the line between the block valves but shall comply with paragraph (a) of this section at all other times.				
<b>STANDARDS: VALVES IN GAS/VAPOR SERVICE OR IN LIGHT LIQUID SERVICE - 264.1057</b>							
BB 57	264.1057(a)		Each valve in gas/vapor or light liquid service <ul style="list-style-type: none"> <li>shall be monitored monthly to detect leaks by the methods in 264.1063(b) and</li> <li>shall comply with paragraphs (b) through (e) of this section, except as provided in paragraphs (f), (g), and (h) of this section, and 264.1061 and 264.1062.</li> </ul>				
BB 58	264.1057(b)		If an instrument reading of 10,000 ppm or greater is measured, a leak is detected.				
BB 59	264.1057(c)(1)		Any valve for which a leak is not detected for two successive months may be monitored the first month of every succeeding quarter, beginning with the next quarter, until a leak is detected.				
BB 60	264.1057(c)(2)		If a leak is detected, the valve shall be monitored monthly until leak is not detected for two successive months.				
BB 61	264.1057(d)(1)		When a leak is detected, it shall be repaired <ul style="list-style-type: none"> <li>as soon as practicable,</li> <li>but no later than 15 days after detection,</li> </ul> except as provided in 264.1059.				
BB 62	264.1057(d)(2)		A first attempt at repair shall be made no later than 5 days after each leak is detected.				

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					YES/NO/NA	YES/NO/NA	
BB 63	264.1057(e)		<b>First attempts at repair include, but are not limited to, the following best practices where practicable:</b>				
BB 64	264.1057(e)(1)		Tightening of bonnet bolts.				
BB 65	264.1057(e)(2)		Replacement of bonnet bolts.				
BB 66	264.1057(e)(3)		Tightening of packing gland nuts.				
BB 67	264.1057(e)(4)		Injection of lubricant into lubricated packing.				
BB 68	264.1057(f)		Any designated valve, as described in 264.1064(g)(2), for no detectable emissions (instrument reading of less than 500 ppm above background) is exempt from paragraph (a) of this section if the valve:				
BB 69	264.1057(f)(1)		Has no external actuating mechanism in contact with the hazardous waste stream.				
BB 70	264.1057(f)(2)		Is operated with emissions less than 500 ppm above background as determined by the method in 264.1063(c).				
BB 71	264.1057(f)(3)		Is tested for compliance with paragraph (f)(2) of this section initially upon designation, annually, and at other times as requested by the Agency.				
BB 72	264.1057(g)		<b>Any designated valve, as described in 264.1064(h)(1), as an unsafe-to-monitor valve is exempt from the of paragraph (a) of this section if:</b>				
BB 73	264.1057(g)(1)		The facility must determine that the valve is unsafe to monitor because monitoring personnel would be in immediate danger as complying with paragraph (a) of this section.				
BB 74	264.1057(g)(2)		The facility must adhere to a written plan that requires monitoring the valve frequently during safe-to-monitor times.				

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					YES/NO/NA	YES/NO/NA	
BB 75	264.1057(h)		Any designated valve, as described in 264.1064(h)(2), as a difficult-to-monitor valve is exempt from paragraph (a) of this section if:				
BB 76	264.1057(h)(1)		The facility determines that the valve cannot be monitored without elevating the monitoring personnel more than 2 meters above a support surface.				
BB 77	264.1057(h)(2)		The valve is located in a hazardous waste management unit that was in operation before June 21, 1990.				
BB 78	264.1057(h)(3)		The facility must follow a written plan that requires monitoring of the valve at least once per calendar year.				
<b>STANDARDS: PUMPS AND VALVES IN HEAVY LIQUID SERVICE, PRESSURE RELIEF DEVICES IN LIGHT LIQUID OR HEAVY LIQUID SERVICE, AND FLANGES AND OTHER CONNECTORS - 264.1058</b>							
BB 79	264.1058(a)		The facility shall monitor within 5 days by the method in 264.1063(b) if evidence of a potential leak is found by visual, audible, olfactory, or any other detection method.				
BB 80	264.1058(b)		If an instrument reading is 10,000 ppm or greater, a leak is detected.				
BB 81	264.1058(c)(1)		When a leak is detected, it shall be repaired <ul style="list-style-type: none"> <li>• as soon as practicable,</li> <li>• but not later than 15 days after detection</li> </ul> except as provided in 264.1059.				
BB 82	264.1058(c)(2)		The first attempt at repair shall be made no later than 5 days after each leak is detected.				
BB 83	264.1058(d)		First attempts at repair include, but are not limited to, the best practices under 264.1057(e).				

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					YES/NO/NA	YES/NO/NA	
<b>STANDARDS: DELAY OF REPAIR - 264.1059</b>							
BB 84	264.1059(a)		<p>Delay in repairing leaking equipment will be allowed if the repair is technically infeasible without a hazardous waste management unit shutdown.</p> <p>In such a case, repair of this equipment shall occur before the end of the next hazardous waste management unit shutdown.</p>				
BB 85	264.1059(b)		<p>Delay in repairing leaking equipment will be allowed for equipment</p> <ul style="list-style-type: none"> <li>that is isolated from the hazardous waste management unit and</li> <li>that does not continue to contain or contact hazardous waste with organic concentrations at least 10 percent by weight.</li> </ul>				
BB 86	264.1059(c)		<b>Delay of repair for valves will be allowed if:</b>				
BB 87	264.1059(c)(1)		The facility determines that emissions of purged material resulting from immediate repair are greater than the emissions from delay of repair.				
BB 88	264.1059(c)(2)		When repairing, the purged material is collected and destroyed or recovered in a control device complying with 264.1060.				
BB 89	264.1059(d)		<b>Delay of repair for pumps will be allowed if:</b>				
BB 90	264.1059(d)(1)		Repair requires the use of a dual mechanical seal system that includes a barrier fluid system.				
BB 91	264.1059(d)(2)		Repair is completed as soon as practicable, but not later than 6 months after the leak was detected.				

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					YES/NO/NA	YES/NO/NA	
BB 92	264.1059(e)		<p>Delay of repair beyond a hazardous waste management unit shutdown will be allowed for a valve if</p> <ul style="list-style-type: none"> <li>valve assembly replacement is necessary during the hazardous waste management unit shutdown,</li> <li>valve assembly supplies were sufficiently stocked before being depleted, and</li> <li>valve assembly supplies had been sufficiently stocked before the supplies were depleted.</li> </ul> <p>Delay of repair beyond the next hazardous waste management unit shutdown will <b>not</b> be allowed unless the next hazardous waste management unit shutdown occurs sooner than 6 months after the first hazardous waste management unit shutdown.</p>				
(BB 93) STANDARDS: CLOSED-VENT SYSTEMS AND CONTROL DEVICES - 264.1060							
The facility with closed-vent systems and control devices shall comply with 264.1033.							
ALTERNATIVE STANDARDS FOR VALVES IN GAS/VAPOR SERVICE OR IN LIGHT LIQUID SERVICE:							
PERCENTAGE OF VALVES ALLOWED TO LEAK - 264.1061							
BB 94	264.1061(a)		A facility subject to 264.1057 may elect to have all valves within a hazardous waste management unit complies with an alternative standard that allows no greater than 2% of the valves to leak.				
BB 95	264.1061(b)		The following requirements shall be met if a facility decides to comply with the alternative standard of allowing 2% of valves to leak:				

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					YES/NO/NA	YES/NO/NA	
BB 96	264.1061(b)(1)		The facility must notify the Agency that they have elected to comply with the requirements of this section.				
BB 97	264.1061(b)(2)		A performance test in paragraph (c) of this section shall be conducted initially upon designation, annually, and at other times requested by the Agency.				
BB 98	264.1061(b)(3)		If a valve leak is detected, it shall be repaired in accordance with 264.1057(d) and (e).				
BB 99	264.1061(c)		<b>Performance tests shall be conducted as follows:</b>				
BB 100	264.1061(c)(1)		All valves subject to 264.1057 within the hazardous waste management unit shall be monitored within 1 week by the methods 264.1063(b).				
BB 101	264.1061(c)(2)		If an instrument reading is 10,000 ppm or greater, a leak is detected.				
BB 102	264.1061(c)(3)		The leak percentage shall be determined by dividing the number of leaking valves subject to 264.1057 by the total number of valves subject to 264.1057 within the hazardous waste management unit.				
BB 103	264.1061(d)		<b>If a facility decides to comply with this section no longer, the facility must notify the Agency in writing that the work practice standard in 264.1057(a) through (e) will be followed.</b>				
<b>ALTERNATIVE STANDARDS FOR VALVES IN GAS/VAPOR SERVICE OR IN LIGHT LIQUID SERVICE:</b>							
<b>SKIP PERIOD LEAK DETECTION AND REPAIR - 264.1062</b>							
BB 104	264.1062(a)(1)		A facility subject to 264.1057 may elect for all valves within a hazardous waste management unit to comply with one of the alternative work practices in paragraphs (b) (2) and (3) of this section.				

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					YES/NO/NA	YES/NO/NA	
BB 105	264.1062(a)(2)		The facility must notify the Agency before implementing one of the alternative work practices.				
BB 106	264.1062(b)(1)		The facility shall comply with the requirements for valves (264.1057) except as described in paragraphs (b)(2) and (b)(3) of this section.				
BB 107	264.1062(b)(2)		After <u>two consecutive</u> quarterly leak detection periods with the percentage of valves leaking equal to or less than 2%, the facility may begin to skip one of the quarterly leak detection periods for the valves subject to 264.1057.				
BB 108	264.1062(b)(3)		After <u>five consecutive</u> quarterly leak detection periods with the percentage of valves leaking equal to or less than 2 %, the facility may begin to skip <u>three</u> of the quarterly leak detection periods for the valves subject to 264.1057.				
BB 109	264.1062(b)(4)		If the percentage of valves leaking is greater than 2 %, the facility shall monitor monthly in compliance with 264.1057, but may again elect to use this section after meeting 264.1057(c)(1).				
<b>TEST METHODS AND PROCEDURES - 264.1063</b>							
BB 110	264.1063(a)		A facility subject to the provisions of this subpart shall comply with the test methods and procedures in this section.				
BB 111	264.1063(b)		<b>Leak detection monitoring, as required in 264.1052-264.1062, shall comply with the following requirements:</b>				
BB 112	264.1063(b)(1)		Monitoring shall comply with Reference Method 21 in 40 CFR part 60.				
BB 113	264.1063(b)(2)		The detection instrument shall meet the performance criteria of Reference Method 21.				

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					YES/NO/NA	YES/NO/NA	
BB 114	264.1063(b)(3)		The instrument shall be calibrated before use each day by the procedures in Reference Method 21.				
BB 115	264.1063(b)(4)		Calibration gases shall be: (i) Zero air (less than 10 ppm of hydrocarbon in air). (ii) A mixture of methane or n-hexane and air at a concentration of about, but less than, 10,000 ppm methane or n-hexane.				
BB 116	264.1063(b)(5)		The instrument probe shall be traversed around all potential leak interfaces as close to the interface as possible as described in Reference Method 21.				
BB 117	264.1063(c)		<b>When equipment is tested for compliance with no detectable emissions, as required in 264.1052(e), 264.1053(i), 264.1054, and 264.1057(f), the test shall comply with the following requirements:</b>				
BB 118	264.1063(c)(1)		The requirements of paragraphs (b)(1) through (4) of this section shall apply.				
BB 119	264.1063(c)(2)		The background level shall be determined as set forth in Reference Method 21.				
BB 120	264.1063(c)(3)		The instrument probe shall be traversed around all potential leak interfaces as close to the interface as possible as described in Reference Method 21.				
BB 121	264.1063(c)(4)		The difference between the maximum concentration (instrument reading) and the background level is compared with 500 ppm for determining compliance.				
BB 123	264.1063(d)		<b>In accordance with the waste analysis plan required by 264.13(b), the facility must determine, for each piece of equipment, whether the equipment contains or contacts a hazardous waste with organic concentration that equals or exceeds 10% by weight using the following:</b>				

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					YES/NO/NA	YES/NO/NA	
BB 124	264.1063(d)(1)		Methods described in ASTM Methods D 2267-88, E 169-87, E 168-88, E 260-85 (incorporated by reference under 260.11);				
BB 125	264.1063(d)(2)		Method 9060 or 8240 of SW-846 (incorporated by reference under 260.11); or				
BB 126	264.1063(d)(3)		<p>Knowledge of the nature of the hazardous waste stream or the process by which it was produced. Documentation of a waste determination by knowledge is required.</p> <p>Examples of documentation include</p> <ul style="list-style-type: none"> <li>• production process information documenting that no organic compounds are used,</li> <li>• the waste is generated by an identical process that has previously been demonstrated by direct measurement to have a total organic content less than 10%, or</li> <li>• prior speciation analysis results on the same waste stream that no process changes have occurred since that analysis that could affect the waste total organic concentration.</li> </ul>				
BB 127	264.1063(e)		<b>If the facility determines that a piece of equipment contains or contacts a hazardous waste with organic concentrations at least 10% by weight, the determination can be revised only after following the procedures in paragraph (d)(1) or (d)(2) of this section.</b>				
BB 128	264.1063(f)		<b>When the facility and the Agency do not agree on whether a piece of equipment contains or contacts a hazardous waste with organic concentrations at least 10% by weight, the procedures in paragraph (d)(1) or (d)(2) of this section can be used to resolve the dispute.</b>				

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ITEM #	FEDERAL REGULATIONS 40 CFR	STATE REGULATIONS OAC 252:205	GENERAL DESCRIPTION	INFO LOCATION	ADMIN. COMPLETE	TECHNICALLY COMPLETE	REMARKS
					YES/NO/NA	YES/NO/NA	
BB 129	264.1063(g)		Samples used in determining the percent organic content shall be representative of the highest total organic content hazardous waste to be contained in or contact the equipment.				
BB 130	264.1063(h)		To determine if pumps or valves are in light liquid service, the vapor pressures of constituents may be obtained from standard reference texts or may be determined by ASTM D-2879-86 (incorporated by reference under 260.11).				
BB 131	264.1063(i)		Performance tests to determine if a control device achieves 95 weight percent organic emission reduction shall comply with 264.1034(c)(1) through (c)(4).				
<b>RECORDKEEPING REQUIREMENTS - 264.1064</b>							
BB 132	264.1064(a)(1)		A facility subject to the provisions of this subpart shall comply with the record keeping requirements of this section.				
BB 133	264.1064(a)(2)		The facility with more than one hazardous waste management unit may comply with the record keeping requirements in one record keeping system if the system identifies each record by each hazardous waste management unit.				
BB 134	264.1064(b)		The facility must record the following information in the operating record:				

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ITEM #	FEDERAL REGULATIONS 40 CFR	STATE REGULATIONS OAC 252:205	GENERAL DESCRIPTION	INFO LOCATION	ADMIN. COMPLETE	TECHNICALLY COMPLETE	REMARKS
					YES/NO/NA	YES/NO/NA	
BB 135	264.1064(b)(1)		For each piece of equipment to which subpart BB of 264 applies: (i) Equipment identification number and hazardous waste management unit identification. (ii) Approximate locations within the facility. (iii) Type of equipment. (iv) Percent-by-weight total organics in the hazardous waste stream at the equipment. (v) Hazardous waste state at the equipment (e.g., gas/vapor or liquid). (vi) Method of compliance with the standard (e.g., "monthly leak detection and repair" or "equipped with dual mechanical seals").				
BB 136	264.1064(b)(2)		For facilities that comply with 264.1033(a)(2), an implementation schedule as in 264.1033(a)(2).				
BB 137	264.1064(b)(3)		Where the facility chooses to use test data to <ul style="list-style-type: none"> <li>demonstrate the organic removal efficiency or</li> <li>total organic compound concentration achieved by the control device,</li> </ul> a performance test plan as in 264.1035(b)(3).				
BB 138	264.1064(b)(4)		Documentation of compliance with 264.1060, including the detailed design documentation or performance test results in 264.1035(b)(4).				
BB 139	264.1064(c)		<b>When each leak is detected as specified in 264.1052, 264.1053, 264.1057, and 264.1058, the following requirements apply:</b>				

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					YES/NO/NA	YES/NO/NA	
BB 140	264.1064(c)(1)		A visible weatherproof identification attached to the leaking equipment, marked with <ul style="list-style-type: none"> <li>equipment identification number,</li> <li>date evidence of leak was found in accordance with 264.1058(a), and</li> <li>date of leak was detected,</li> </ul>				
BB 141	264.1064(c)(2)		The identification on equipment, except on a valve, may be removed after it has been repaired.				
BB 142	264.1064(c)(3)		The identification on a valve may be removed after it has been monitored for 2 successive months as in 264.1057(c) and no leak has been detected during those 2 months.				
BB 143	264.1064(d)		<b>When each leak is detected as specified in 264.1052, 264.1053, 264.1057, and 264.1058, the following information shall be recorded in an inspection log and shall be kept in the operating record:</b>				
BB 144	264.1064(d)(1)		The instrument and operator identification numbers and the equipment identification number.				
BB 145	264.1064(d)(2)		The date evidence of a potential leak was found in accordance with 264.1058(a).				
BB 146	264.1064(d)(3)		The date the leak was detected and the dates of each attempt to repair the leak.				
BB 147	264.1064(d)(4)		Repair methods applied in each attempt to repair the leak.				
BB 148	264.1064(d)(5)		"Above 10,000" if the maximum instrument reading measured by the methods in 264.1063(b) after each repair attempt is equal to or greater than 10,000 ppm.				
BB 149	264.1064(d)(6)		"Repair delayed" and the reason for the delay if a leak is not repaired within 15 days after discovery of the leak.				

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ITEM #	FEDERAL REGULATIONS 40 CFR	STATE REGULATIONS OAC 252:205	GENERAL DESCRIPTION	INFO LOCATION	ADMIN. COMPLETE	TECHNICALLY COMPLETE	REMARKS
					YES/NO/NA	YES/NO/NA	
BB 150	264.1064(d)(7)		Documentation supporting the delay of repair of a valve in compliance with 264.1059(c).				
BB 151	264.1064(d)(8)		The signature of the facility representative whose decision it was that repair could not be effected without a hazardous waste management unit shutdown.				
BB 152	264.1064(d)(9)		The expected date of successful repair if a leak is not repaired within 15 days.				
BB 153	264.1064(d)(10)		The date of successful repair of the leak.				
BB 154	264.1064(e)		<ul style="list-style-type: none"> <li>• Design documentation and monitoring,</li> <li>• operating, and</li> <li>• inspection information</li> </ul> for each closed-vent system and control device required to comply with 264.1060 shall be <ul style="list-style-type: none"> <li>• recorded and</li> <li>• kept up-to-date</li> </ul> in the operating record as specified in 264.1035(c). Design documentation is specified in 264.1035(c)(1) and (c)(2) and monitoring, operating, and inspection information in 264.1035(c)(3)-(c)(8).				

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ITEM #	FEDERAL REGULATIONS 40 CFR	STATE REGULATIONS OAC 252:205	GENERAL DESCRIPTION	INFO LOCATION	ADMIN. COMPLETE	TECHNICALLY COMPLETE	REMARKS
					YES/NO/NA	YES/NO/NA	
BB 155	264.1064(f)		<p>For a control device other than</p> <ul style="list-style-type: none"> <li>• a thermal vapor incinerator,</li> <li>• catalytic vapor incinerator,</li> <li>• flare,</li> <li>• boiler,</li> <li>• process heater,</li> <li>• condenser, or</li> <li>• carbon adsorption system,</li> </ul> <p>the Agency will specify the appropriate record keeping requirements.</p>				
BB 156	264.1064(g)		The following information on equipment subject to 264.1052 through 264.1060 shall be recorded in a log in the operating record:				
BB 157	264.1064(g)(1)		A list of identification numbers for equipment (except welded fittings) subject to this subpart.				
BB 158	264.1064(g)(2)		<p>(i) A list of identification numbers for equipment that the facility designates for no detectable emissions (instrument reading of less than 500 ppm above background) under 264.1052(e), 264.1053(i), and 264.1057(f).</p> <p>(ii) The designation of this equipment as subject to 264.1052(e), 264.1053(i), or 264.1057(f) shall be signed by the facility.</p>				
BB 159	264.1064(g)(3)		A list of equipment identification numbers for pressure relief devices required to comply with 264.1054(a).				

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ITEM #	FEDERAL REGULATIONS 40 CFR	STATE REGULATIONS OAC 252:205	GENERAL DESCRIPTION	INFO LOCATION	ADMIN. COMPLETE	TECHNICALLY COMPLETE	REMARKS
					YES/NO/NA	YES/NO/NA	
BB 160	264.1064(g)(4)		(i) The dates of each compliance test required in 264.1052(e), 264.1053(i), 264.1054, and 264.1057(f).  (ii) The background level measured during each compliance test.  (iii) The maximum instrument reading measured at the equipment during each compliance test.				
BB 161	264.1064(g)(5)		A list of identification numbers for equipment in vacuum service.				
BB 162	264.1064(h)		<b>The following information on all valves subject to 264.1057(g) and (h) shall be recorded in a log in the operating record:</b>				
BB 163	264.1064(h)(1)		For valves that are designated as <u>unsafe to monitor</u> :  • a list of identification numbers,  • an explanation for each valve stating why the valve is unsafe to monitor, and  • the plan for monitoring each valve.				
BB 164	264.1064(h)(2)		For valves that are designated as <u>difficult to monitor</u> :  • a list of identification numbers  • an explanation for each valve stating why the valve is difficult to monitor, and  • the schedule for monitoring each valve.				
BB 165	264.1064(i)		<b>The following information shall be recorded in the operating record for valves complying with 264.1062:</b>				
BB 166	264.1064(i)(1)		A schedule of monitoring.				
BB 167	264.1064(i)(2)		The percent of valves found leaking during each monitoring period.				

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					YES/NO/NA	YES/NO/NA	
BB 168	264.1064(j)		The following information shall be recorded in a log in the operating record:				
BB 169	264.1064(j)(1)		Criteria required in 264.1052(d)(5)(ii) and 264.1053(e)(2) and an explanation of the design criteria.				
BB 170	264.1064(j)(2)		Any changes to these criteria and the reasons for the changes.				
BB 171	264.1064(k)		The following information shall be recorded in a log in the operating record for use in determining exemptions:				
BB 172	264.1064(k)(1)		An analysis determining the design capacity of the hazardous waste management unit.				
BB 173	264.1064(k)(2)		A listing of the hazardous waste influent to and effluent from each hazardous waste management unit subject to 264.1052 through 264.1060 and an analysis determining whether these hazardous wastes are heavy liquids.				
BB 174	264.1064(k)(3)		<p>An up-to-date analysis, information, and data to determine whether or not equipment is subject to 264.1052 through 264.1060.</p> <p>The record shall include documentation as required by 264.1063(d)(3) when application of the knowledge of the nature of the hazardous waste stream or the process by which it was produced is used.</p> <p>If the facility takes any action (e.g., changing process) that could result in an increase in the total organic content of the waste contained in or contacted by equipment determined not to be subject to the requirements in 264.1052 through 264.1060, then a new determination is required.</p>				

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ITEM #	FEDERAL REGULATIONS 40 CFR	STATE REGULATIONS OAC 252:205	GENERAL DESCRIPTION	INFO LOCATION	ADMIN. COMPLETE	TECHNICALLY COMPLETE	REMARKS
					YES/NO/NA	YES/NO/NA	
BB 175	264.1064(l)		<p>Records of</p> <ul style="list-style-type: none"> <li>the equipment leak information required by paragraph (d) of this section and</li> <li>the operating information required by paragraph (e) of this section</li> </ul> <p>need be kept only 3 years.</p>				
BB 176	264.1064(m)		<p>The facility subject to</p> <ul style="list-style-type: none"> <li>this subpart and</li> <li>40 CFR part 60, subpart VV, or</li> <li>40 CFR part 61, subpart V,</li> </ul> <p>may elect to determine compliance with this subpart by documentation either pursuant to</p> <ul style="list-style-type: none"> <li>264.1064, or</li> <li>40 CFR part 60 or 61,</li> </ul> <p>to the extent that the documentation under the regulation at 40 CFR part 60 or Part 61 duplicates the documentation required under this subpart.</p> <p>The documentation under 40 CFR part 60 or part 61 shall be with the operating record.</p>				
<b>RE8ORTING REQUIREMENTS - 264.1065</b>							
BB 177	264.1065(a)		<p>The facility shall submit a semiannual report subject to the requirements of this subpart by dates specified by the Agency.</p> <p>The report shall include the following information:</p>				

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ITEM #	FEDERAL REGULATIONS 40 CFR	STATE REGULATIONS OAC 252:205	GENERAL DESCRIPTION	INFO LOCATION	ADMIN. COMPLETE	TECHNICALLY COMPLETE	REMARKS
					YES/NO/NA	YES/NO/NA	
BB 178	264.1065(a)(1)		The EPA identification number, name, and address of the facility.				
BB 179	264.1065(a)(2)		For each month during the semiannual reporting period: (i) The equipment identification number of each <u>valve</u> for which a leak was not repaired as required in 264.1057(d). (ii) The equipment identification number of each <u>pump</u> for which a leak was not repaired as required in 264.1052(c) and (d)(6). (iii) The equipment identification number of each <u>compressor</u> for which a leak was not repaired as required in 264.1053(g).				
BB 180	264.1065(a)(3)		Dates of hazardous waste management unit shutdowns that occurred within the semiannual reporting period.				
BB 181	264.1065(a)(4)		For each month during the semiannual reporting period, dates when <ul style="list-style-type: none"> <li>• the control device as required by 264.1052, 264.1053, 264.1054, or 264.1055 exceeded or operated outside of the design specifications as defined in 264.1064(e) and as indicated by the control device monitoring required by 264.1060 and was not corrected within 24 hours,</li> <li>• the duration and cause of each exceedance, and</li> <li>• any corrective measures taken.</li> </ul>				

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ITEM #	FEDERAL REGULATIONS 40 CFR	STATE REGULATIONS OAC 252:205	GENERAL DESCRIPTION	INFO LOCATION	ADMIN. COMPLETE	TECHNICALLY COMPLETE	REMARKS
					YES/NO/NA	YES/NO/NA	
B 182	264.1065(b)		<p>If, during the semiannual reporting period,</p> <ul style="list-style-type: none"> <li>leaks are repaired for (required by): valves (264.1057(d)), pumps (264.1052(c) and (d)(6)), and compressors (264.1053(g)),</li> <li>and the control device does not exceed or operate outside of the design specifications as defined in 264.1064(e) for more than 24 hours,</li> </ul> <p>a report to the Agency is not required.</p>				

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DEFINITIONS

All terms not defined herein shall have the meaning given them in 264.1031, the Act and parts 260 - 266.

- Air stripping operation*            A desorption operation employed to transfer one or more volatile components from a liquid mixture into a gas (air) either with or without the application of heat to the liquid.  
Packed towers, spray towers, and bubble-cap, sieve, or valve-type plate towers are among the process configurations used for contacting the air and a liquid.
- Bottoms receiver*                A container or tank used to receive and collect the heavier bottoms fractions of the distillation feed stream that remain in the liquid phase.
- Closed-vent system*            A system that is not open to the atmosphere and that is composed of piping, connections, and, if necessary, flow-inducing devices that transport gas or vapor from a piece or pieces of equipment to a control device.
- Condenser*                        A heat-transfer device that reduces a thermodynamic fluid from its vapor phase to its liquid phase.
- Connector*                        Flanged, screwed, welded, or other joined fittings used to connect two pipelines or a pipeline and a piece of equipment.  
For the purposes of reporting and record keeping, connector means flanged fittings that are not covered by insulation or other materials that prevent location of the fittings.
- Continuous recorder*            A data-recording device recording an instantaneous data value at least once every 15 minutes.
- Control device*                  An enclosed combustion device, vapor recovery system, or flare. Any device the primary function of which is the recovery or capture of solvents or other organics for use, reuse, or resale (e.g., a primary condenser, on a solvent recovery unit) is not a control device.
- Control device shutdown*        The cessation of operation of a control device for any purpose.
- Distillate receiver*              A container or tank used to receive and collect liquid material (condensed) from the overhead condenser of a distillation unit and from which the condensed liquid is pumped to larger storage tanks or other process units.
- Distillation operation*          Operation, either batch or continuous, separating one or more feed stream(s) into two or more exit streams, each exit stream having component concentrations different from those in the feed stream(s). The separation is achieved by the redistribution of the components between the liquid and vapor phase as they approach equilibrium within the distillation unit.
- Double block & bleed system*    Two block valves connected in series with a bleed valve or line that can vent the line between the two block valves.
- Equipment*                        Each valve, pump, compressor, pressure relief device, sampling connection system, open-ended valve or line, or flange, and any control devices or systems required by this subpart.
- Flame zone*                        The portion of the combustion chamber in a boiler occupied by the flame envelope.
- Flow indicator*                  A device that indicates whether gas flow is present in a vent stream.

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<i>First attempt</i>	To take rapid action for the purpose of stopping or reducing leakage of organic material to the atmosphere using best practices.
<i>Fractionation operation</i>	A distillation operation or method used to separate a mixture of several volatile components of different boiling points in successive stages, each stage removing from the mixture some proportion of one of the components.
<i>Hazardous waste management unit shutdown</i>	A work practice or operational procedure that stops operation of a hazardous waste management unit or part of a hazardous waste management unit. An unscheduled work practice or operational procedure that stops operation of a hazardous waste management unit or part of a hazardous waste management unit for less than 24 hours is not a hazardous waste management unit shutdown. The use of spare equipment and technically feasible bypassing of equipment without stopping operation are not hazardous waste management unit shutdowns.
<i>Hot well</i>	A container for collecting condensate as in a steam condenser serving a vacuum-jet or steam-jet ejector.
<i>In gas/vapor service</i>	The piece of equipment contains or contacts a hazardous waste stream that is in the gaseous state at operating conditions.
<i>In heavy liquid service</i>	The piece of equipment is not in gas/vapor service or in light liquid service.
<i>In light liquid service</i>	The piece of equipment contains or contacts a waste stream where the vapor pressure of one or more of the components in the stream is greater than 0.3 kilopascals (kPa) at 20 °C, the total concentration of the pure components having a vapor pressure greater than 0.3 kPa at 20 °C is equal to or greater than 20 percent by weight, and the fluid is a liquid at operating conditions.
<i>In situ sampling systems</i>	Nonextractive samplers or in-line samplers.
<i>In vacuum service</i>	Equipment is operating at an internal pressure that is at least 5 kPa below ambient pressure.
<i>Malfunction</i>	Any sudden failure of a control device or a hazardous waste management unit or failure of a hazardous waste management unit to operate in a normal or usual manner, so that organic emissions are increased.
<i>Open-ended valve or line</i>	Any valve, except pressure relief valves, having one side of the valve seat in contact with process fluid and one side open to the atmosphere, either directly or through open piping.
<i>Pressure release</i>	The emission of materials resulting from the system pressure being greater than the set pressure of the pressure relief device.
<i>Process heater</i>	A device that transfers heat liberated by burning fuel to fluids contained in tubes, including all fluids except water that are heated to produce steam.
<i>Process vent</i>	Any open-ended pipe or stack that is vented to the atmosphere either directly, through a vacuum-producing system, or through a tank (e.g., distillate receiver, condenser, bottoms receiver, surge control tank, separator tank, or hot well) associated with hazardous waste distillation, fractionation, thin-film evaporation, solvent extraction, or air or steam stripping operations.
<i>Repaired</i>	Equipment is adjusted, or otherwise altered, to eliminate a leak.
<i>Sensor</i>	A device that measures a physical quantity or the change in a physical quantity, such as temperature, pressure, flow rate, pH, or liquid level.
<i>Separator tank</i>	A device used for separation of two immiscible liquids.

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*Solvent extraction operation* An operation or method of separation in which a solid or solution is contacted with a liquid solvent (the two being mutually insoluble) to preferentially dissolve and transfer one or more components into the solvent.

*Startup* The setting in operation of a hazardous waste management unit or control device for any purpose.

*Steam stripping operation* A distillation operation in which vaporization of the volatile constituents of a liquid mixture takes place by the introduction of steam directly into the charge.

*Surge control tank* A large-sized pipe or storage reservoir sufficient to contain the surging liquid discharge of the process tank to which it is connected.

*Thin-film evaporation operation* A distillation operation that employs a heating surface consisting of a large diameter tube that may be either straight or tapered, horizontal or vertical. Liquid is spread on the tube wall by a rotating assembly of blades that maintain a close clearance from the wall or actually ride on the film of liquid on the wall.

*Vapor incinerator* Any enclosed combustion device that is used for destroying organic compounds and does not extract energy in the form of steam or process heat.

*Vented* Discharged through an opening, typically an open-ended pipe or stack, allowing the passage of a stream of liquids, gases, or fumes into the atmosphere. The passage of liquids, gases, or fumes is caused by mechanical means such as compressors or vacuum-producing systems or by process-related means such as evaporation produced by heating and not caused by tank loading and unloading (working losses) or by natural means such as diurnal temperature changes.

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<p><b>APPLICATION REVIEW CHECKLIST</b></p> <p><b>LAND PROTECTION DIVISION HAZARDOUS WASTE PROGRAM</b></p>  <p><b>OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY</b></p>	Facility Name: _____ Facility ID No.: _____ ODEQ Permit No.: _____ Reference No.: _____ Application Type: _____ Date: _____ (New/Modify/Renewal)	40 CFR 264 Subpart DD <u>CONTAINMENT</u> <u>BUILDINGS</u>
	Administrative Reviewer: _____ Start Date: _____ Completion Date: _____ Technical Reviewer: _____ Start Date: _____ Completion Date: _____ Issuance Deadline: _____	ODEQ Form Number XXX - XXX
		Shaded areas for ODEQ use only

ITEM #	FEDERAL REGULATIONS 40 CFR	STATE REGULATIONS OAC 252:205	GENERAL DESCRIPTION	INFO LOCATION	ADMIN. COMPLETE	TECHNICALLY COMPLETE	REMARKS
					YES/NO/NA	YES/NO/NA	
<p><b>[DD 1] APPLICABILITY - 264.1100</b></p> <p>The subpart applies to facilities that store or treat hazardous waste in units designed and operated under 264.1101 of this subpart.</p> <p>These provisions will become effective on February 18, 1993, although the facility may notify the Agency of his intent to be bound by this subpart at an earlier time.</p> <p>The facility is <u>not</u> subject to the definition of land disposal in RCRA section 3004(k) provided that the unit:</p>							

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					YES/NO/NA	YES/NO/NA	
DD 2	264.1100(a)		<p>Is a completely enclosed, self-supporting structure that is designed and constructed of man-made materials of sufficient strength and thickness</p> <ul style="list-style-type: none"> <li>• to support <ul style="list-style-type: none"> <li>* themselves,</li> <li>* the waste contents, and</li> <li>* any personnel and heavy equipment that operate within the unit, and</li> </ul> </li> <li>• to prevent failure due to <ul style="list-style-type: none"> <li>* pressure gradients,</li> <li>* settlement,</li> <li>* compression, or uplift,</li> <li>* physical contact with the hazardous wastes to which they are exposed,</li> <li>* climatic conditions, and</li> <li>* the stresses of daily operation, including the movement of heavy equipment and contact of such equipment with containment walls;</li> </ul> </li> </ul>				
DD 3	264.1100(b)		<p>Has a primary barrier with sufficient durability to withstand the movement of</p> <ul style="list-style-type: none"> <li>• personnel,</li> <li>• wastes, and</li> <li>• handling equipment within the unit;</li> </ul>				
DD 4	264.1100(c)		If the unit is used to manage liquids, has:				
DD 5	264.1100(c)(1)		A primary barrier of materials to prevent migration of hazardous constituents into the barrier;				
DD 6	264.1100(c)(2)		A liquid collection system of materials to minimize the accumulation of liquid on the primary barrier; and				

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					YES/NO/NA	YES/NO/NA	
DD 7	264.1100(c)(3)		A secondary containment system of materials to prevent migration of hazardous constituents into the barrier, with a leak detection and liquid collection system capable of detecting, collecting, and removing leaks of hazardous constituents at the earliest time, unless the unit has been granted a variance from the secondary containment system under 264.1101(b)(4);				
DD 8	264.1100(d)		Has controls sufficient to prevent fugitive dust emissions to meet the no visible emission standard in 264.1101(c)(1)(iv); and				
DD 9	264.1100(e)		Is designed and operated to ensure containment and prevent the tracking of materials from the unit by personnel or equipment.				
<b>DESIGN AND OPERATING STANDARDS - 264.1101</b>							
DD 10	264.1101(a)		All containment buildings must comply with the following design standards:				
DD 11	264.1101(a)(1)		The containment building must be completely enclosed with a floor, walls, and a roof to prevent exposure to the elements (e.g., precipitation, wind, run-on), and to assure containment of managed wastes.				
DD 12	264.1101(a)(2)		The floor and containment walls of the unit, including the secondary containment system if required under paragraph (b) of this section, must be designed and constructed of materials of sufficient strength and thickness <ul style="list-style-type: none"> <li>• to support themselves, the waste contents, and any personnel and heavy equipment that operate within the unit, and</li> <li>• to prevent failure due to pressure gradients, settlement, compression, or uplift, physical contact with the hazardous wastes, climatic conditions, and the stresses of daily operation including in contact with the</li> </ul>				

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					YES/NO/NA	YES/NO/NA	
DD 12 cont.	264.1101(a)(2) cont.		<p>handling equipment.</p> <p>The unit must have sufficient structural strength to prevent collapse or other failure.</p> <p>All surfaces in contact with hazardous wastes must be chemically compatible with those wastes.</p> <p>The Agency will consider standards established by professional organizations such as the American Concrete Institute (ACI) and the American Society of Testing Materials (ASTM) in judging the structural integrity requirements of this paragraph.</p> <p>If appropriate to the nature of the waste management operation, an exception to the structural strength requirement may be made for light-weight doors and windows that meet these criteria:</p> <p>(i) They provide an effective barrier against fugitive dust emissions under paragraph (c)(1)(iv); and</p> <p>(ii) The unit is designed and operated such that wastes will not actually come in contact with these openings.</p>				
DD 13	264.1101(a)(3)		Incompatible hazardous wastes or treatment reagents must not be placed in the unit or its secondary containment system if such could cause leaks, corrosion, or failure.				
DD 14	264.1101(a)(4)		<p>A containment building must have a primary barrier</p> <ul style="list-style-type: none"> <li>• to withstand the movement of personnel, waste, and handling equipment during the operating life and</li> <li>• appropriate for the physical and chemical characteristics of the waste.</li> </ul>				
DD 15	264.1101(b)		<b>For hazardous wastes containing free liquids or treated with free liquids, a containment building must have:</b>				
DD 16	264.1101(b)(1)		A primary barrier made of materials to prevent the migration of hazardous constituents into the barrier (e.g., a geomembrane covered by a concrete wear surface).				

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					YES/NO/NA	YES/NO/NA	
DD 17	264.1101(b)(2)		<p>A liquid collection and removal system to minimize the accumulation of liquid on the primary barrier:</p> <p>(i) The primary barrier must be sloped to drain liquids to the collection system; and</p> <p>(ii) Liquids and waste must be collected and removed to minimize hydraulic head on the containment system at the earliest practical time.</p>				
DD 18	264.1101(b)(3)		<p>A secondary containment system including</p> <ul style="list-style-type: none"> <li>• a secondary barrier to prevent migration of hazardous constituents into the barrier, and</li> <li>• a leak detection system to detect failure of the primary barrier and collect accumulated hazardous wastes and liquids at the earliest practicable time.</li> </ul> <p>(i) The minimum requirements of the leak detection component of the secondary containment system:</p> <p>(A) A bottom slope of 1 percent or more; and</p> <p>(B) A granular drainage material with</p> <ul style="list-style-type: none"> <li>• a minimum hydraulic conductivity of <math>1 \times 10^{-2}</math> cm/sec and a minimum thickness of 12 inches (30.5 cm), or</li> <li>• constructed of synthetic or geonet drainage materials with a minimum transmissivity of <math>3 \times 10^{-5}</math> m<sup>2</sup>/sec.</li> </ul> <p>(ii) If treatment is to be conducted in the building, an area in which such treatment will be conducted must be designed to prevent the release of liquids, wet materials, or liquid aerosols to other portions of the building.</p> <p>(iii) The secondary containment system must be constructed of materials that are</p> <ul style="list-style-type: none"> <li>• chemically resistant to the waste and liquids and</li> <li>• of sufficient strength and thickness to prevent</li> </ul>				

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					YES/NO/NA	YES/NO/NA	
DD 18 cont.	264.1101(b)(3) cont.		collapse.  (Containment buildings can serve as secondary containment systems for tanks placed within the building under certain conditions.  A containment building can serve as an external liner system for a tank, provided it meets the requirements of 264.193(d)(1).  In addition, the containment building must meet the requirements of 264.193(b) and 264.193(c)(1) and (2) to be considered an acceptable secondary containment system for a tank.)				
DD 19	264.1101(b)(4)		For existing units other than 90-day generator units, based on a demonstration that the unit meets the standards of this subpart, the Agency may delay the secondary containment requirement for up to two years.  In making this demonstration, the owner or operator must: (i) Provide written notice request by November 16, 1992. This notification must describe <ul style="list-style-type: none"> <li>• the unit and its operating practices with specific reference to the performance of existing containment systems, and</li> <li>• specific plans for retrofitting the unit with secondary containment;</li> </ul> (ii) Respond to any comments from the Agency on these plans within 30 days; and (iii) Fulfill the terms of the revised plans, if such plans are approved by the Agency.				
DD 20	264.1101(c)		<b>The facility with containment buildings must:</b>				

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					YES/NO/NA	YES/NO/NA	
DD 21	264.1101(c)(1)		<p>Use controls and practices to ensure containment of the hazardous waste within the unit; and, at a minimum:</p> <ul style="list-style-type: none"> <li>(i) Maintain the primary barrier to be free of significant cracks, gaps, corrosion, or other deterioration;</li> <li>(ii) Maintain the level of the hazardous waste so that the height of any containment wall is not exceeded;</li> <li>(iii) Take measures to prevent the tracking of hazardous waste out of the unit by personnel or by equipment. Must have an designated area to decontaminate and any rinsate must be collected and properly managed; and</li> <li>(iv) Take measures to control fugitive dust emissions such that any openings (e.g., doors, vents, cracks) exhibit no visible emissions (see 40 CFR part 60, appendix A, Method 22--Visual Determination of Fugitive Emissions from Material Sources and Smoke Emissions from Flares).</li> </ul> <p>In addition, all particulate collection devices (e.g., fabric filter, electrostatic precipitator) must be operated and maintained with sound air pollution control practices (see 40 CFR part 60 subpart 292 for guidance).</p> <p>No visible emissions must be maintained at all times during routine operating and maintenance conditions, including when entering and exiting the unit.</p>				

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					YES/NO/NA	YES/NO/NA	
DD 22	264.1101(c)(2)		<p>A certification by a qualified registered professional engineer that the containment building design meets the requirements of paragraphs (a) through (c) of this section.</p> <p>For units placed into operation <u>before</u> February 18, 1993, this certification must be placed in the facility's operating record (on-site files for generators who are not formally required to have operating records) no later than 60 days after the date of initial operation of the unit.</p> <p><u>After</u> February 18, 1993, PE certification will be required before operation of the unit.</p>				
DD 23	264.1101(c)(3)		<p>Throughout the active life of the containment building, if the facility detects a condition that could lead to or has caused a release of hazardous waste, must repair the condition promptly, in accordance with the following procedures.</p> <p>(i) Upon detection of a release of hazardous waste (e.g., detection of leakage from the primary barrier) the facility must:</p> <p>(A) Enter a record of the discovery in the operating record;</p> <p>(B) Immediately remove the portion of the containment building affected by the condition from service;</p> <p>(C) Determine what steps must be taken to</p> <ul style="list-style-type: none"> <li>• repair the containment building,</li> <li>• remove any leakage from the secondary collection system, and</li> <li>• establish a schedule for accomplishing the clean-up and repairs; and</li> </ul> <p>(D) <u>Within 7 days</u> after the discovery, notify the Agency the condition, and</p>				

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					YES/NO/NA	YES/NO/NA	
DD 23 cont.	264.1101(c)(3) cont.		<p>within 14 working days, provide a written description of the steps taken to repair the containment building, and the schedule for accomplishing the work.</p> <p>(ii) The Agency will</p> <ul style="list-style-type: none"> <li>• review the information submitted,</li> <li>• make a determination regarding whether the containment building must be removed from service completely or partially until repairs and cleanup are complete, and</li> <li>• notify the facility of the determination and the underlying rationale in writing.</li> </ul> <p>(iii) Upon completing all repairs and cleanup the facility must</p> <ul style="list-style-type: none"> <li>• notify the Agency in writing and</li> <li>• provide a verification, signed by a qualified, registered professional engineer, that the repairs and cleanup have been completed according to the written plan submitted in accordance with paragraph (c)(3)(i)(D) of this section.</li> </ul>				
DD 24	264.1101(c)(4)		Inspect and record in the facility's operating record, at least once every seven days, data gathered from monitoring equipment and leak detection equipment as well as the containment building and the area immediately surrounding the containment building to detect signs of releases of hazardous waste.				
DD 25	264.1101(d)		<b>For containment buildings that have areas both with and without secondary containment, the facility must:</b>				
DD 26	264.1101(d)(1)		Design and operate each area in accordance with all requirements in paragraphs (a) through (c) of this section;				
DD 27	264.1101(d)(2)		Take measures to prevent the release of liquids or wet materials into areas without secondary containment; and				

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					YES/NO/NA	YES/NO/NA	
DD 28	264.1101(d)(3)		Maintain in the facility's operating log a written operating procedures used to maintain the integrity of areas without secondary containment.				
DD 29	264.1101(e)		<p>Notwithstanding any other provision of this subpart the Agency may waive requirements for secondary containment for a permitted containment building where the facility demonstrates that</p> <ul style="list-style-type: none"> <li>the only free liquids in the unit are dust suppression liquids required to meet occupational health and safety requirements, and</li> <li>where containment of managed wastes and liquids can be assured without a secondary containment system.</li> </ul>				
<b>CLOSURE AND POST-CLOSURE CARE - 264.1102</b>							
DD 30	264.1102(a)		<p>The facility must clean close, or close to an acceptable health-based risk level determined by the Agency.</p> <p>Wastes associated with closure must be managed as hazardous waste unless 261.3(d) applies.</p> <p>The closure plan, closure activities, cost estimates for closure, and financial responsibility must meet all of the requirements specified in Subparts G and H of this part.</p>				

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					YES/NO/NA	YES/NO/NA	
DD 31	264.1102(b)		<p>If, after reasonable efforts to meet requirements of paragraph (a) of this section, the facility finds that not all contaminated subsoils can be practicably removed or decontaminated, the facility must perform post-closure care in accordance with the closure and post-closure requirements of landfills (264.310).</p> <p>In addition, for the purposes of closure, post-closure, and financial responsibility, the facility must meet all of the requirements for landfills specified in Subparts G and H of this part.</p>				

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