

<p>APPLICATION REVIEW CHECKLIST</p> <p>LAND PROTECTION DIVISION HAZARDOUS WASTE PROGRAM</p> <p>OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY</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>[DD 1] APPLICABILITY - 264.1100</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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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"> • to support <ul style="list-style-type: none"> * themselves, * the waste contents, and * any personnel and heavy equipment that operate within the unit, and • to prevent failure due to <ul style="list-style-type: none"> * pressure gradients, * settlement, * compression, or uplift, * physical contact with the hazardous wastes to which they are exposed, * climatic conditions, and * the stresses of daily operation, including the movement of heavy equipment and contact of such equipment with containment walls; 				
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"> • personnel, • wastes, and • handling equipment within the unit; 				
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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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.				
DESIGN AND OPERATING STANDARDS - 264.1101							
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"> • to support themselves, the waste contents, and any personnel and heavy equipment that operate within the unit, and • 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 				

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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"> • to withstand the movement of personnel, waste, and handling equipment during the operating life and • appropriate for the physical and chemical characteristics of the waste. 				
DD 15	264.1101(b)		For hazardous wastes containing free liquids or treated with free liquids, a containment building must have:				
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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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"> • a secondary barrier to prevent migration of hazardous constituents into the barrier, and • a leak detection system to detect failure of the primary barrier and collect accumulated hazardous wastes and liquids at the earliest practicable time. <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"> • a minimum hydraulic conductivity of 1×10^{-2} cm/sec and a minimum thickness of 12 inches (30.5 cm), or • constructed of synthetic or geonet drainage materials with a minimum transmissivity of 3×10^{-5} m²/sec. <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"> • chemically resistant to the waste and liquids and • of sufficient strength and thickness to prevent 				

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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"> • the unit and its operating practices with specific reference to the performance of existing containment systems, and • specific plans for retrofitting the unit with secondary containment; (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)		The facility with containment buildings must:				

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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"> (i) Maintain the primary barrier to be free of significant cracks, gaps, corrosion, or other deterioration; (ii) Maintain the level of the hazardous waste so that the height of any containment wall is not exceeded; (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 (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). <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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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"> • repair the containment building, • remove any leakage from the secondary collection system, and • establish a schedule for accomplishing the clean-up and repairs; and <p>(D) <u>Within 7 days</u> after the discovery, notify the Agency the condition, and</p>				

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DD 23 cont.	264.1101(c)(3) cont.		<p><u>within 14 working days</u>, 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"> • review the information submitted, • make a determination regarding whether the containment building must be removed from service completely or partially until repairs and cleanup are complete, and • notify the facility of the determination and the underlying rationale in writing. <p>(iii) Upon completing all repairs and cleanup the facility must</p> <ul style="list-style-type: none"> • notify the Agency in writing and • 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. 				
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)		For containment buildings that have areas both with and without secondary containment, the facility must:				
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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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"> • the only free liquids in the unit are dust suppression liquids required to meet occupational health and safety requirements, and • where containment of managed wastes and liquids can be assured without a secondary containment system. 				
CLOSURE AND POST-CLOSURE CARE - 264.1102							
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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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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