

**Oklahoma Department of Environmental Quality  
Supplemental Checklist for Containment Buildings**

FACILITY \_\_\_\_\_

EPA ID# \_\_\_\_\_

DATE \_\_\_\_\_

Identify each containment building used for storage of HW


If any answer is "No," identify the containment building in which the violation occurred.

Regulatory Requirements	Area of Non-compliance	Remarks
<b>A. Design Standards</b>		
A.1. Is the containment building completely enclosed with a floor, walls, and roof to prevent exposure to the elements and assure containment of managed wastes? [40 CFR 264/265.1101(a)(1)]		
A.2. Are the floors and containment walls designed and constructed with sufficient structural strength to prevent failure due to pressure gradients, settlement, equipment, climatic conditions, etc? [40 CFR 264/265.1101(a)(2)]		
A.3. Are all surfaces in contact with HW chemically compatible with those wastes? [40 CFR 264/265.1101(a)(2)]		
A.4. Does the o/o store incompatible wastes or treatment reagents in the containment building in a manner that will prevent failure of the building or secondary containment system? [40 CFR 264/265.1101(a)(3)]		
A.5. Is the containment building equipped with a primary barrier designed to withstand the movement of personnel, waste, and handling equipment during the life of the building? [40 CFR 264/265.1101(a)(4)]		
<b>B. Additional Design Standards (Note: Only applicable for containment buildings used to store free liquids. If none, skip to Section C)</b>		
B.1. Is the containment building equipped with a primary barrier that prevents the migration of hazardous constituents into the barrier (e.g. geomembrane covered with concrete wear surface)? [40 CFR 264/265.1101(b)(1)]		
B.1.1. Is the primary barrier sloped to drain liquids to the collection system? [40 CFR 264/265.1101(b)(2)(i)]		
B.1.2. Does the o/o ensure liquids in the collection system are removed at the earliest practical time? [40 CFR 264/265.1101(b)(2)(ii)]		
B.2. Is the containment building equipped with a secondary containment system with a secondary barrier that prevents migration of hazardous constituents into the barrier? [40 CFR 264/265.1101(b)(3)]		
B.2.1. Is the secondary containment system constructed of materials that are chemically resistant to the waste and liquids managed in the containment building? [40 CFR 264/265.1101(b)(3)(iii)]		
B.2.2. Is the secondary containment system constructed with sufficient strength to prevent collapse under pressure from overlaying materials and equipment? [40 CFR 264/265.1101(b)(3)(iii)]		
B.3. Is the containment building equipped with a leak detection system? [40 CFR 264/265.1101(b)(3)]		
B.3.1. Is the leak detection system constructed with a bottom slope $\geq 1\%$ ? [40 CFR 264/265.1101(b)(3)(i)(A)]		
B.3.2. Is the leak detection system equipped with EITHER: (1) a $\geq 12''$ granular drainage layer with a hydraulic conductivity of $\geq 1 \times 10^{-2}$ cm/sec; OR (2) a synthetic or geonet drainage material with a transmissivity of $\geq 3 \times 10^{-5}$ m <sup>2</sup> /sec? [40 CFR 264/265.1101(b)(3)(i)(B)]		
<b>C. Operational Standards</b>		
C.1. (Note: Question C.1. only applies to containment buildings at LQG facilities)  Does the o/o maintain EITHER: (Identify which standard is met)  _____ a written description of: (1) procedures to ensure waste remains in the building no longer than 90 days; (2) waste generation and management practices to demonstrate the 90-day limit is respected; and (3) documentation that the procedures are complied with? [40 CFR 262.34(a)(1)(iv)(A)]  OR  _____ documentation that the unit is emptied at least every 90 days? [40 CFR 262.34(a)(1)(iv)(B)]		
C.2. Does the o/o maintain the primary barrier to be free of significant cracks, gaps, corrosion, or other deterioration that could cause HW to be released from the primary barrier? [40 CFR 264/265.1101(c)(1)(i)]		

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Regulatory Requirements	Area of Non-compliance	Remarks
C.3. Does the o/o ensure stored or treated HW does not extend above the height of the containment walls? [40 CFR 264/265.1101(c)(1)(ii)]		
C.4. Does the o/o take measures to prevent tracking of HW out of the building by personnel or equipment? [40 CFR 264/265.1101(c)(1)(iii)]		
C.5. Does the o/o maintain a designated area to decontaminate equipment that is removed from the containment building? [40 CFR 264/265.1101(c)(1)(iii)]		
C.6. Does the o/o ensure rinsate from decontamination is collected and properly managed? [40 CFR 264/265.1101(c)(1)(iii)]		
C.7. Does the o/o prevent fugitive dust emissions from doors, windows, vents, cracks, etc. at all times, even when personnel or vehicles are entering or leaving? [40 CFR 264/265.1101(c)(1)(iv)]		
C.8. Does the o/o ensure all associated particulate collection devices are operated and maintained properly? [40 CFR 264/265.1101(c)(1)(iv)]		
C.9. Did the o/o obtain a certification by a qualified professional engineer that the containment building design meets all of the requirements of Items A.1. through C.8? [40 CFR 264/265.1101(c)(2)]		
C.10. Does the o/o ensure EACH of the following are inspected at least once every seven days: (1) data gathered from monitoring equipment; (2) data gathered from leak detection equipment; (3) the containment building itself; AND (4) the area immediately surrounding the containment building? [40 CFR 264/265.1101(c)(4)]		
C.11. Does the o/o ensure the inspections identified in item C.10. are recorded in the operating record? [40 CFR 264/265.1101(c)(4)]		
<b>D. Additional Operational Standards</b> <i>(Note: Only applicable for containment buildings having both areas with and without secondary containment. If none, skip to Section E)</i>		
D.1. Does the o/o take measures to prevent the release of liquids or wet materials into areas without secondary containment? [40 CFR 264/265.1101(d)(2)]		
D.2. Does the o/o maintain a written description of the procedures to be used to maintain the integrity of areas without secondary containment? [40 CFR 264/265.1101(d)(3)]		
<b>E. Detection of Releases</b> <i>(Note: Only applicable if there is a condition that caused, or may cause, a release of HW from the containment building. Identify the date(s), nature, and quantity of the release(s))</i>		
E.1. Did the o/o enter a record of the discovery in the operating record? [40 CFR 264/265.1101(c)(3)(i)(A)]		
E.2. Did the o/o immediately remove the affected portion of the containment building from service? [40 CFR 264/265.1101(c)(3)(i)(B)]		
E.3. Did the o/o remove leakage from the secondary containment system? [40 CFR 264/265.1101(c)(3)(i)(C)]		
E.4. Did the o/o establish a schedule for cleanup and repairs? [40 CFR 264/265.1101(c)(3)(i)(C)]		
E.5. Did the o/o notify the DEQ within 7 days after discovery of the condition? [40 CFR 264/265.1101(c)(3)(i)(D)]		
E.6. Did the o/o provide a written notice to the DEQ within 14 working days, describing the steps taken to repair the building and a schedule for completing the work? [40 CFR 264/265.1101(c)(3)(i)(D)]		
E.7. Did the o/o notify the DEQ in writing after repairs were completed? [40 CFR 264/265.1101(c)(3)(iii)]		
E.8. Did the o/o provide verification signed by a qualified registered professional engineer that the repairs and cleanup were completed in accordance with the written plan? [40 CFR 264/265.1101(c)(3)(iii)]		