



## Ohio Administrative Code

### Rule 901:5-2-04 Inspection, maintenance alteration, repair and reconstruction.

Effective: November 21, 2007

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(A) Every owner of one or more permanent storage vessels shall:

(1) Once each week:

(a) Check all liquid level gauging equipment to ensure it is functioning properly;

(b) Check roof drains for obstructions;

(c) Check vents and pressure-relief devices for obstructions;

(d) Check electrical grounding lines and connections for integrity;

(e) Visually inspect the dike of the secondary containment facility for erosion, cracks and deterioration;

(f) Check and record the liquid level of each permanent storage vessel when it contains any product;

(2) Once each month:

(a) Visually inspect all exterior surfaces, welds, rivets/bolts, and foundations of permanent storage vessels;

(b) Inventory all spill control equipment and emergency response equipment.

(3) Once every twelve months, for vessels built to the API 650 standard, inspect the exterior of storage vessels in accordance with the API 653 inspection check list, or if the vessel is built to exceed the API 650 standard, in accordance with the inspection protocols and standards submitted pursuant to paragraph (A)(1)(b)(ii) of rule 901:5-2-10 of the Administrative Code:



(4) For permanent storage vessels other than those erected on site, once every five years inspect the interior of the storage vessel in accordance with the API 653 inspection checklist.

(5) For permanent storage vessels equipped with a bladder, the bladder shall be inspected:

(a) Within two years of the effective date of this rule if the bladder was installed prior to the effective date of this rule, and every five years thereafter; or,

(b) For bladders installed after the effective date of this rule, two years after installation and every five years thereafter;

(c) Notwithstanding paragraphs (A)(5)(a) and (A)(5)(b) of this rule, whenever a bladder is repaired, altered, or replaced it shall be inspected two years after repair, alteration, or replacement and every five years thereafter.

(B) Every owner of one or more permanent storage vessels shall:

(1) Maintain the permanent storage vessels, secondary containment facilities, and hoses, pipes, and fittings to the extent necessary to ensure they are free from rust, corrosion, galling, cracking, or any other structural deterioration or damage which affects their strength or watertight integrity. All valves, pumps and other mechanical appurtenances shall be maintained in working order;

(2) Grade and drain permanent storage vessel foundations to insure that moisture and debris do not accumulate at the base of the vessel;

(3) For all permanent storage vessels set on a concrete foundation, seal the vessel floor and foundation interface to provide a moisture barrier;

(C) All welded repairs to permanent storage vessels shall be made in accordance with the vessel's original design specifications. When the original design specifications are unknown, weld repairs shall be made in accordance with API 653 and shall comply with the impact toughness requirements of API 650;



(D) All materials used in the repairs of permanent storage vessels shall conform to the vessel's original design specifications. When the original design specifications are unknown, the repair material shall conform to the requirements of API 653 and the impact toughness requirements of API 650.

(E) All stress analysis of a permanent storage vessel done to determine the safety of a vessel shall be done using a specific gravity of 1.50. A lower specific gravity may be used only if use of the vessel is limited to the storage of liquid fertilizers with a specific gravity which does not exceed the actual specific gravity used in the stress analysis.

(F) All permanent storage vessels erected on site that are dismantled and reconstructed at a different site shall be dismantled and reconstructed in accordance with the API 653 standard.