

7151.5600 CORROSION PROTECTION.

Subpart 1. **Tanks.** The floor of a steel aboveground storage tank must be protected from corrosion using one of the following methods:

A. the tank is elevated so that the underside of the tank floor is not in contact with any surface other than the tank supports;

B. the tank rests on a continuous concrete slab that is designed to prevent water from accumulating under the tank floor;

C. the tank is double walled;

D. the tank is double-bottomed with:

(1) a vacuum pulled on the interstitial space; or

(2) a cathodic protection system installed in the interstitial space;

E. the tank floor is:

(1) cathodically protected; and

(2) internally lined in accordance with American Petroleum Institute Standard 652;

F. the tank floor is:

(1) cathodically protected; and

(2) internally inspected in accordance with American Petroleum Institute Standard 653; or

G. the tank floor is:

(1) internally lined in accordance with American Petroleum Institute Standard 652; and

(2) internally inspected in accordance with American Petroleum Institute Standard 653.

Subp. 2. **Lines.** A steel line must be protected from external corrosion using one of the following methods:

A. the line is not in contact with soil;

B. the line is cathodically protected; or

C. the line is double walled.

Subp. 3. **Design criteria.** Cathodic protection of new steel tanks and lines must meet the following design criteria:

A. the cathodic protection system must be designed by a corrosion expert in accordance with American Petroleum Institute Standards 651 and 1632, as applicable; and

B. underground lines and the underside of the floor of a shop-fabricated steel tank must be coated with dielectric material in accordance with Steel Tank Institute Recommended Practice R893-89.

Statutory Authority: *MS s 115.03*

History: *23 SR 883; 25 SR 556*

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