

5-253.3 Bulk Gasoline Plants

(a) Applicability.

(1) This subsection shall apply to any *bulk gasoline plant* with an average daily throughput of 3,000 gallons or greater calculated on a calendar month basis. Once a *bulk gasoline plant* is subject to this subsection, it shall remain so, even if its throughput later falls below the applicability threshold. Any *bulk gasoline plant* with a throughput which is below the threshold shall comply with the requirements of paragraphs (b)(3)(vii), (viii), (ix) and (d)(1)(i) only.

(2) This subsection shall also apply to any *bulk gasoline plant*, regardless of its gasoline throughput, for which construction or reconstruction is commenced after January 1, 2001.

(b) Standards.

(1) The owner or operator of a *bulk gasoline plant* shall equip each *gasoline storage tank* with a *submerged fill pipe* and shall equip the *bulk gasoline plant* with a *vapor balance system* between the *gasoline storage tank* and the incoming *gasoline tank truck*. The lines shall be equipped with fittings that are *vapor-tight* and that automatically and immediately close upon disconnection.

(2) The owner or operator of a *bulk gasoline plant* shall equip the plant's *loading rack(s)* for *submerged fill* and shall equip the *bulk gasoline plant* with a *vapor balance system* between the *gasoline storage tank* and the outgoing *gasoline tank truck*. The *vapor balance system* shall be designed to prevent any vapors collected at one *loading rack* from passing to another *loading rack*. The lines shall be equipped with fittings that are *vapor-tight* and that automatically and immediately close upon disconnection.

(3) The owner or operator of a *bulk gasoline plant* required to maintain and operate a *vapor balance system* under this subsection shall ensure that the following procedures are complied with during *gasoline loading and unloading operations* and in the storage of *gasoline*:

(i) The *vapor balance system* shall be connected between the *gasoline tank truck* and the storage tank during all transfer operations and the connection shall be *vapor-tight*;

(ii) All storage tank openings, including inspection hatches and gauging and sampling devices, shall be *vapor-tight* when not in use;

(iii) The *gasoline tank truck* compartment hatch covers shall remain closed during the transfer of *gasoline*;

(iv) The *vapor balance system* shall be designed and operated at all times to prevent gauge pressure in the *gasoline tank truck* from exceeding 18 inches (450 millimeters [mm]) of water and vacuum from exceeding 5.9 inches (150 mm) of water during product transfer;

(v) No pressure vacuum relief valve in the *bulk gasoline plant vapor balance system* shall begin to open at a system pressure of less than 18 inches (450 mm) of water or at a vacuum of less than 5.9 inches (150 mm) of water;

(vi) All product transfers shall be limited to *vapor-tight gasoline tank trucks* or *account trucks* [for definition of account truck see Section 5-253.5(b)];

(vii) The filling of storage tanks shall be accomplished by *submerged fill* only;

(viii) The loading of outgoing *gasoline tank trucks* and *account trucks* [for definition of account truck see Section 5-253.5(b)] shall be accomplished by *submerged fill* only; and

(ix) The owner or operator of the *gasoline bulk plant* or the *gasoline tank truck* shall observe the entire transfer operation and shall discontinue transfer if any liquid or vapor leaks are observed.

(c) Inspection and monitoring requirements.

(1) The *bulk gasoline plant* owner or operator shall inspect the *vapor balance system* and each *loading rack* every calendar month for liquid and vapor leaks during *gasoline* transfer operations. Detection methods using sight, sound, or smell are acceptable. Each leak detected shall be recorded and the source of the leak repaired within 15 calendar days after it is detected.

(2) A pressure measurement device (liquid manometer, magnehelic gauge, or equivalent instrument) capable of measuring 20 in. of water gauge pressure within a ± 0.5 inches of water precision, shall be calibrated and installed on the *bulk gasoline plant vapor balance system*, if applicable, at a pressure tap, located as close as possible to the connection with the *gasoline tank truck*, to allow determination of compliance with paragraph (b) (3) (iv).

(d) Record keeping.

(1) The owner or operator of a *bulk gasoline plant* which is subject to this subsection shall maintain the following records for a minimum of three years:

(i) Daily records showing the quantity of all *gasoline* transferred into *gasoline tank trucks* and *account trucks* [for definition of account truck see Section 5-253.5(b)].

(ii) A record of each monthly leak inspection shall be kept on file at the plant. The inspection records shall include but are not limited to:

(A) The date of inspection;

(B) Findings, including a description of leaks found, if any;

(C) Leak determination method;

(D) Corrective action taken, including the date each leak was repaired; and

(E) The inspector's name and signature.

(2) All records required under this subsection shall be made available for inspection during normal business hours and copies shall be provided to the *Air Pollution Control Officer* upon request.

(e) Compliance. All *bulk gasoline plants* subject to this subsection shall comply with this subsection by July 1, 1994 or by the commencement of plant operation, whichever occurs later.