



OAR 340-244-0248 - Tables

OAR 340-244-0248 Table 2 Management Practices for Gasoline Dispensing Facilities Subject to Stage I Vapor Controls	
If owning or operating	The owner or operator must
1. An existing GDF	<p>The permittee must install and operate a vapor balance system on gasoline storage tanks that meets the design criteria in paragraphs (a) through (h).</p> <p>(a) All vapor connections and lines on the storage tank must be equipped with closures that seal upon disconnect.</p> <p>(b) The vapor line from the gasoline storage tank to the gasoline cargo tank must be vapor-tight, as defined in OAR 340-244-0030.</p> <p>(c) The vapor balance system must be designed such that the pressure in the tank truck does not exceed 18 inches water pressure or 5.9 inches water vacuum during product transfer.</p> <p>(d) The vapor recovery and product adaptors, and the method of connection with the delivery elbow, must be designed so as to prevent the over-tightening or loosening of fittings during normal delivery operations.</p> <p>(e) If a gauge well separate from the fill tube is used, it must be provided with a submerged drop tube that extends the same distance from the bottom of the storage tank as specified in OAR 340-244-0240(2).</p> <p>(f) Liquid fill connections for all systems must be equipped with vapor-tight caps.</p>

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Table 2

Management Practices for Gasoline Dispensing Facilities Subject to Stage I Vapor Controls

If owning or operating	The owner or operator must
	<p>(g) Pressure/vacuum (PV) vent valves must be installed on the storage tank vent pipes. The pressure specifications for PV vent valves must be: a positive pressure setting of 2.5 to 6.0 inches of water and a negative pressure setting of 6.0 to 10.0 inches of water. The total leak rate of all PV vent valves at an affected facility, including connections, must not exceed 0.17 cubic foot per hour at a pressure of 2.0 inches of water and 0.63 cubic foot per hour at a vacuum of 4 inches of water.</p> <p>(h) The vapor balance system must be capable of meeting the static pressure performance requirement of the following equation:</p> $P_f = 2e^{-500.887/v}$ <p>Where: P_f = Minimum allowable final pressure, inches of water. v = Total ullage affected by the test, gallons. e = Dimensionless constant equal to approximately 2.718. 2 = The initial pressure, inches water.</p>
2. For a new or reconstructed GDF with monthly throughput of 100,000 gallons of gasoline or more, or a new storage tank(s) at an existing GDF with monthly throughput of 100,000 gallons of gasoline or more	The permittee must install and operate a dual-point vapor balance system, as defined in OAR 340-244-0030, on each affected gasoline storage tank and comply with the design criteria in item 1 of this Table.

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Table 3

**Management Practices for Gasoline Cargo Tanks
Unloading at Gasoline Dispensing Facilities Equipped
With Stage I Vapor Controls**

The owner or operator of a gasoline cargo tank must:

Not unload gasoline into a storage tank at a GDF with stage I vapor controls unless the following conditions are met:

- (i) All hoses in the vapor balance system are properly connected,
- (ii) The adapters or couplers that attach to the vapor line on the storage tank have closures that seal upon disconnect,
- (iii) All vapor return hoses, couplers, and adapters used in the gasoline delivery are vapor-tight,
- (iv) All tank truck vapor return equipment is compatible in size and forms a vapor-tight connection with the vapor balance equipment on the GDF storage tank, and
- (v) All hatches on the tank truck are closed and securely fastened.
- (vi) The filling of storage tanks at GDF must be limited to unloading by vapor-tight gasoline cargo tanks. Documentation that the cargo tank has met the specifications of EPA Method 27 must be carried on the cargo tank.