

Subpart CCCCCC – Gasoline Dispensing Facilities



Applicability

- Each Gasoline Distribution Facility (GDF) at an area source (affected source)
- Includes –
 - Each gasoline cargo tank during the delivery of product to a GDF and
 - Each storage tank
- Does NOT cover the loading of aviation gasoline storage tanks at airports and aviation gasoline is not included in the gasoline throughput criteria

Parts of affected source covered under this rule

- Gasoline storage tanks
- Associated equipment components in vapor or liquid gasoline service in new, reconstructed or existing GDF
- Pressure/vacuum vents on gasoline storage tanks and equipment necessary to unload product from cargo tanks into storage tanks

Note: Equipment used for refueling motor vehicles is NOT covered

Affected Source

- New affected source
 - commenced construction on affected source after November 9, 2006, and
 - Meet applicability requirements in 63.11111 (GDF located at area source)
- Reconstructed affected source (63.2)
 - the replacement of components of an affected or a previously nonaffected source to such an extent that:
 - The fixed capital cost of the new components exceeds 50 percent of the fixed capital cost that would be required to construct a comparable new source; and
 - It is technologically and economically feasible for the reconstructed source to meet the relevant standard(s) established by the Administrator (or a State) pursuant to section 112 of the Act.
 - (1) An emission standard;
 - (2) An alternative emission standard;
 - (3) An alternative emission limitation; or
 - (4) An equivalent emission limitation established pursuant to section 112 of the Act that applies to the collection of equipment, activities, or both regulated by such standard or limitation. A relevant standard may include or consist of a design, equipment, work practice, or operational requirement, or other measure, process, method, system, or technique (including prohibition of emissions) that the Administrator (or a State) establishes for new or existing sources to which such standard or limitation applies.
- Existing affected source if not new or reconstructed

Compliance Dates (63.11113)

- New or reconstructed affected source
 - Startup before January 10, 2008, compliance date is no later than January 10, 2008
 - Startup after January 10, 2008, compliance date is upon startup of your affected source
- Existing affected source, compliance date is January 10, 2011
- Existing affected source that becomes subject to control requirements due to an increase in monthly throughput, compliance date is three years after the affected source becomes subject to control requirements

Requirements: <10,000/month

- Must not allow gasoline to be handled in a manner that would result in vapor releases to the atmosphere for extended periods of time
 - Minimize gasoline spills
 - Clean up spills as expeditiously as practicable
 - Cover all open gasoline containers and all gasoline storage tank fill-pipes with a gasketed seal when not in use
 - Minimize gasoline sent to open waste collection systems that collect and transport gasoline to reclamation and recycling devices, such as oil/water separators
- No notifications or reports
- Must have records of monthly throughput available within 24 hours of a request
- Must comply with compliance dates (63.11113)

Monthly Throughput $\geq 10,000$ gallons/month (63.11117)

- Comply with basic requirements (63.11116(a))
- Only load gasoline into storage tanks by using submerged filling
 - Submerged fill pipes installed on or before November 9, 2006, must be no more than 12" from the bottom of the storage tank
 - Submerged fill pipes installed after November 9, 2006, must be no more than 6" from the bottom
- Storage tanks <250 gallon do not need to meet submerged fill requirements, but must meet basic requirements
- Records of monthly throughput available within 24 hours
- Notification requirements (63.11124)
- Must comply with compliance dates (63.11113)

Monthly Throughput \geq 100,000 gallons/month (63.11118)

- Comply with all above requirements
- Comply with either –
 - Each applicable management practice in Table 1
 - Meet compliance requirements if, prior to January 10, 2008, you
 - Operate a vapor balance system that
 - Achieves emissions reduction of at least 90%, or
 - Operates using management practices at least as stringent as those in Table 1
 - Comply with an enforceable State, local, or tribal rule, or permit that meets either of the above

Monthly Throughput \geq 100,000 gallons/month (cont)

- Previous control requirements not required for –
 - Gasoline storage tanks <250 gallons, constructed after January 10, 2008
 - Gasoline storage tanks <2,000 gallons, constructed before January 10, 2008
 - Gasoline storage tanks equipped with floating roofs, or equivalent
- Must still comply with other requirements (63.11117)
- Cargo tanks unloading at GDF must comply with management practices in Table 2
- Comply with applicable testing requirements (63.11120)
- Notification requirements (63.11124)
- Keep records and submit reports (63.11125 and 63.11126)
- Must comply with compliance dates (63.11113)

Testing and Monitoring

- At the time of installation of a vapor balance system and every three years
 - Leak rate and cracking pressure requirements (Item 1(g) of Table 1) for pressure –vacuum vent valves on gasoline storage tanks
 - CARB Vapor Recovery Test Procedure TP-201.1E
 - Alternate test methods and procedures (63.7(f))
 - Static pressure performance requirements (Item 1(h) of Table 1) for vapor balance system
 - CARB Vapor Recovery Test Procedure TP-201.3
 - Alternate test methods and procedures (63.7(f))

Vapor Recovery System Other than Table 1

- Option under 63.6(g)
- Must demonstrate to Administrator or delegated authority equivalency by
 - Conducting an initial performance test to demonstrate it achieves 95% reduction using CARB Vapor Recovery Test Procedure TP-201.1
 - During initial performance test, determine and document alternate acceptable values for leak rate and cracking pressure requirements (Item 1(g) and 1(h) of Table 1
 - Comply with testing requirements

Notification ($\geq 10,000$ gallons)

- Initial notification by May 9, 2008, or at time you become subject to the control requirements
 - Name and address of owner and operator
 - Address of the GDF
 - Statement that notification is submitted in response to this subpart and identifying applicable requirements
- Notification of Compliance Status by compliance date
 - If in compliance at time Initial Notification is due, Notification of Compliance Status can be submitted
- No Initial Notification or Notification of Compliance Status required if, prior to January 10, 2008, the GDF is operating in compliance with an enforceable State, local or Tribal rule or permit that requires submerged filling

Notification ($\geq 100,000$ gallons)

- Initial notification – same as above
- Notification of Compliance Status – same as above
- No Initial Notification or Notification of Compliance Status required if, prior to January 10, 2008, the GDF
 - Operates a vapor balance system that
 - Achieves emissions reduction of at least 90% or
 - Operates using management practices at least as stringent as those in Table 1
 - Is in compliance with an enforceable State, local or Tribal rule or permit that meets either of the above
- Notification of Performance Test (63.9(e))
- Additional notifications (63.9)

Recordkeeping/Reporting

Recordkeeping

- Keep records of all tests
- Keep for five years
- Available for inspection during a site visit

Reporting

- Report results of all volumetric efficiency tests
- Reports submitted within 180 days of completion of performance testing

Table 1: Applicability Criteria and Management Practices for GDF

If you own or operate	Then you must
1. A new, reconstructed, or existing GDF subject to 63.11118	Install and operate a vapor balance system on gasoline storage tanks that meet the following requirements:
	a) equip all vapor connections and lines with closures that seal upon disconnect
	b) vapor-tight lines from gasoline storage tank to gasoline cargo tank
	c) tank truck pressure does not exceed 18" water pressure or 5.9" water vacuum during product transfer
	d) designed to prevent over-tightening or loosening of fittings during normal delivery operations
	e) gauge well provided with submerged drop tube extending the same distance from bottom of storage tank as specified in 63.11117(b)
	f) vapor-tight caps on liquid fill connections

Table 1: Applicability Criteria and Management Practices for GDF

If you own or operate	Then you must
	g) install pressure/vacuum vent valves on tank vent pipes at specified setting
	h) vapor balance system must meet the static pressure performance of the following equation: Pf = 2e ^{-500.887/v} , where
	Pf = 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
2. For new or reconstructed GDF, or new storage tank(s) at an existing affected facility	Equip gasoline storage tanks with a dual-point vapor balance system (63.11132), and comply with requirements of Item 1 in this Table.

Table 2: Applicability Criteria and Management Practices for Gasoline Cargo Tanks

If you own or operate	Then you must
A gasoline cargo tank	Not unload gasoline into a storage tank at a GDF unless:
	i) all hoses in vapor balance system are properly connected
	ii) the adapters or couplers that attach to the vapor line has closures that seal upon disconnect
	iii) all vapor return hoses, couplers, and adapters are vapor-tight
	iv) tank truck vapor return equipment is compatible in size and forms a vapor-tight connection with vapor balance equipment on the GDF storage tank
	v) tank truck hatches are closed and securely fastened
	vi) filling of GDF storage tanks limited to unloading by vapor-tight gasoline cargo tanks. Documentation that cargo tank meets EPA Method 27 shall be carried on the cargo tank.

P2 Measures/Resources

- Estimated results of MACT rule*
 - 100,000 tons VOCs
 - 5,000 tons HAPs (175 tons benzene)
- \$50,000 Air Innovations Grant – vent caps and vapor recovery (OPW Vaporsaver System)
 - 100 stations; 500 gallons/month; 440,000 gallons/year; 1,350 tons air pollutants
- Virginia DEQ compliance calendar
(<http://www.deq.virginia.gov/export/sites/default/osba/pdf/2008GDFcalendar.pdf>)
- Florida DEP GDF brochure
(<http://74.125.45.104/search?q=cache:bAASs2bXgoJ:www.dep.state.fl.us/air/msc/industry/GDFFlyerFinalDraft.doc+Small+Business+Assistance+program+GDF&hl=en&ct=clnk&cd=8&gl=us>)
- Tennessee SBEAP Initial Notification Form
(http://www.state.tn.us/environment/ea/pdf/sbeap_retail_gasoline_gdf_initnot.pdf)
- New Jersey SBAP Compliance Calendar (<http://www.nj.gov/dep/opppc/small/comp06cal.pdf>)
- Mid-Atlantic Regional Air Management Association brochure
(http://www.marama.org/calendar/events/presentations/2008_09AT/2008_09AT_GD_ASStd-s-BBBBBB-CCCCC_%20Sum.pdf)
- Wisconsin DNR Notification Cover Letter, Notification Form
(http://www.commerce.state.wi.us/bd/BD-CA-Air_Toxics.html#Status_of_Area_Source_Rules)

*http://www.epa.gov/ttn/atw/area/gasdisp_fs061908.pdf