Air Pollution Control Division
Small Business Assistance Program

NESHAP Requirements for Gasoline Distribution Bulk Terminals, Bulk Plants, and Pipeline Facilities

On January 24, 2011, the Environmental Protection Agency ("EPA") revised the national emission standards for hazardous air pollutants ("NESHAP") emitted from area source bulk gasoline distribution facilities (gasoline distribution bulk terminals, bulk plants, and pipeline facilities), 40 CFR Part 63, Subpart BBBBBB. Emission sources include gasoline storage tanks, gasoline loading racks, vapor collection-equipped gasoline cargo tanks, and equipment components in vapor or liquid gasoline service.

EPA currently implements and enforces this rule in Colorado.

➢ Definitions

o **Bulk Gasoline Plant** – a gasoline storage and distribution facility that receives gasoline by pipeline or cargo tank, loads the gasoline into gasoline cargo tanks for transport to gasoline dispensing facilities, and has a gasoline throughput of less than 20,000 gallons per day (based on maximum calculated design throughput).
o **Bulk Gasoline Terminal** – any gasoline storage and distribution facility that receives gasoline by pipeline or cargo tank and has a gasoline throughput greater than or equal to 20,000 gallons per day (based on maximum calculated design throughput).
o **Existing affected source** – commenced construction on or before November 9, 2006.
o **Gasoline cargo tank** – a delivery tank truck or railcar that is loading gasoline.
o **Gasoline service** – a piece of equipment used in a system that transfers gasoline or gasoline vapors.
o **New affected source** – commenced construction or reconstruction after November 9, 2006.
o **Pipeline breakout station** –a facility along a pipeline containing storage vessels used to relieve surges or receive and store gasoline from the pipeline for re-injection and continued transportation by pipeline or to other facilities.
o **Pipeline pumping station** – a facility along a pipeline containing pumps to maintain a desired pressure and flow of product through the pipeline, and not containing storage vessels other than surge control tanks.
o **Reconstructed source** – fixed capital cost of the new components exceeds fifty percent of the fixed capital cost of an entirely new source.
o **Submerged filling** – the filling of a gasoline storage tank through a submerged fill pipe (applicable discharge distances are outlined in the rule), including bottom.
o **Vapor balance system** – combination of pipes and hoses that create a closed system between the vapor spaces of an unloading gasoline cargo tank and a receiving storage tank such that vapors displaced from the storage tank are transferred to the cargo tank being unloaded.
o **Vapor-tight** – equipment that allows no loss of vapors (specific definitions, annual testing and inspections apply).

➢ Subpart BBBBBB – Gasoline Distribution Bulk and Pipeline Facilities

o 63.11081 – Applicability

- This rule applies to the following facilities, unless such facility is subject to either the Gasoline Distribution MACT (Part 63, Subpart CCCCCC) or Refinery MACT (Part 63, Subpart CC):
  - √ Bulk gasoline terminals,
  - √ Bulk gasoline plants,
  - √ Pipeline breakout stations, and
  - √ Pipeline pumping stations.

o 63.11083 - Compliance Dates

Facility Type		Compliance Date
New or reconstructed sources	Startup *before* January 10, 2008	January 10, 2008 ▫
	Startup *after* January 10, 2008	Upon Initial Startup ▫
Existing sources		January 10, 2011 (or within 3 years of increasing throughput above 250,000 gallons per day)
Storage vessels equipped with floating roofs that do not meet the emission limit and management practices in Table 1		By the first degassing and cleaning activity after January 10, 2011, or by January 10, 2018, whichever is first

o 63.11086- 63.11089 – Requirements

Facility	Facility Requirements	
Bulk gasoline plants	Storage tanks with a capacity greater than 250 gallons must have submerged fill pipes	Fill pipes installed *on or before* November 9, 2006, must be no more than 12 inches from the bottom of the storage tank
		Fill pipes installed *after* November 9, 2006, must be no more than 6 inches from the bottom of the storage tank
		Fill pipes not meeting the 12 or 6 inch distances are allowed if the liquid level in the storage tank is always above the entire opening of the pipe; this must be demonstrable
	Storage tanks with a capacity less than 250 gallons are NOT required to comply with submerged pipe filling	

	Must handle gasoline to avoid extended vapor releases: ♦ Minimize gasoline spills; ♦ Clean up spills as quickly as practicable; ♦ Cover all open gasoline containers; ♦ Cover all gasoline storage tank fill-pipes with a gasketed seal when not in use; ♦ Minimize gasoline sent to open waste collection systems	
Gasoline storage tanks *(at bulk terminals, pipeline breakout stations, and pipeline pumping stations)*	Comply with emission limits and management practices for storage tanks in Table 1 of Subpart BBBBBB: ♦ Tanks with a capacity of less than 75 m^3; or a capacity of less than 151 m^3 and a gasoline throughput of 480 gallons per day or less (rolling 365 day average) o Utilize a fixed roof o Maintain all openings in a closed position when not in use ♦ Tanks with a capacity greater than or equal to 75 m^3 o Reduce total organic HAP or TOC emissions with a control device with at least 95% efficiency, or o Equip the tank with a floating roof ♦ Surge control tanks o Utilize a fixed roof o Maintain all openings in a closed position when not in use	
	Comply with applicable testing and monitoring requirements specified in 63.11092(e).	
	If a gasoline storage tank is subject to, and complies with, the control requirements of NSPS Kb (40 CFR Part 60, Subpart Kb), the tank is deemed compliant with this rule	
Gasoline loading racks *(at bulk terminals, pipeline breakout stations, and pipeline pumping stations)*	Comply with emission limits and management practices in Table 2 of Subpart BBBBBB: ♦ If throughput is less than 250,000 gallons per day, submerged fill is required with a submerged fill pipe that is no more than 6 inches from the bottom of the cargo tank ♦ If throughput is greater than or equal to 250,000 gallons per day (rolling 365 day average) o Route vapors to a vapor collection system o Reduce emissions to less than or equal to 80 mg/l of gasoline loaded into gasoline cargo tanks at the loading rack o Limit the loading into cargo tanks that are vapor tight as described in Part 60, Subpart XX §§60.502(e)-(j)), http://www.gpo.gov/fdsys/pkg/CFR-2013-title40-vol7/pdf/CFR-2013-title40-vol7-part60-subpartXX.pdf	
	As an alternative for railcar cargo tanks to the requirements specified in Table 2 to this subpart, you may comply with the requirements specified in §63.422(e)	
	Comply with applicable testing and monitoring requirements specified in 63.11092	
Equipment Leaks Requirements	Perform a monthly leak inspection of all equipment in gasoline service	Site, sound and smell are acceptable methods of detection
		Monthly inspections must be documented in a logbook
	When a leak is detected, an initial attempt at repair must be made as soon as practicable but no later than 5 calendar days after the leak is detected	

	Repair and replacement of leaking equipment must be completed within 15 calendar days after detection of each leak
	Delay of repair is allowed if the repair is not feasible within 15 days. Documentation of a delay and completed repair must be made in the semi-annual report

Note: If your throughput ever exceeds an applicable throughput threshold, you will remain subject to the requirements for sources above the threshold, even if your throughput later falls below the applicable throughput threshold.

- **63.11092 – Testing and Monitoring Requirements (Control Devices)**

Facility	Testing	
Bulk gasoline terminal subject to Table 2 option 1(b)-*(control of vapors at loading racks)*	Conduct a performance test on your vapor collection system (see §63.11092(a)(1)) and determine a monitored operating parameter value (see §§63.11092(b)(1), 63.11092(b)(5))	Gasoline loading racks operated in compliance with an enforceable air permit meeting an emission limit of 80 mg/l are not required to test
		You may submit representative performance test results conducted after January 10, 2003
	Flares meeting 63.11100 and 63.11b must be in compliance with 63.11b and 60.503abd	
	Install a CMS by January 10, 2011	
All loading racks at bulk gasoline terminals	Install, calibrate, certify, operate, and maintain a continuous monitoring system ("CMS") while gasoline vapors are displaced to the vapor processing system	
	Flares must use a heat-sensing device to indicate the presence of the pilot light flame	
	Operate the vapor processing system at your determined operating parameter value	
Gasoline storage tanks	Inspect internal (see §63.113b(b)) and external (see §63.113b(b)) floating roofs	
	Conduct performance tests, determine a monitored operating parameter value for your closed vent system and control device, and control by 95%	
Gasoline cargo tanks	Conduct annual certification tests (see §63.11092(f))	

- **63.11094 – Recordkeeping Requirements**
  - Refer to this section of the regulation (§63.11094) for specific recordkeeping requirements – requirements vary based on type of facility and equipment.
  - For new or reconstructed sources, recordkeeping must begin at startup.
  - For existing sources, recordkeeping must on January 10, 2008.
  - Records must be maintained for at least five years.

o **63.11093 – Notifications and Reporting**

Facility	Notifications		Reports
Bulk gasoline plants	Initial Notification by May 9, 2008	Initial and Compliance Notifications are not required if you are operating in compliance with an enforceable air permit that requires submerged fill prior to January 10, 2008	Submit a semiannual excess emission report if excess emission events occur
	Notification of Performance Test at least 60 days prior to initiating testing required by §§63.11092(a) or (b)		
	Notification of Compliance Status within 60 days after the completion of the relevant compliance demonstration activity (i.e. initial performance test)		Submit a semiannual report including the number, duration, and description of malfunctions
Gasoline storage tanks	Initial notification by 120 days or within 120 days after becoming subject to Subpart BBBBBB		If complying with Table 1 options 2(a), 2(b), or 2(c) submit a semiannual reporting including the information in Part 60, Subpart Kb, §§60.115b(a)-(c)
	Notification of Compliance Status specifying the compliance option in Table 1 within 60 days after the completion of the relevant compliance demonstration activity (i.e. initial performance test)		If complying with Table 1 options 2(d) submit a semiannual report including the information in Part 63, Subpart WW, §63.1066
			Submit a semiannual excess emission report including non-vapor tight loadings, exceedances of monitored operating parameters, and malfunctions,
	Report whether gasoline storage tank is in compliance with Part 60, Subpart Kb in the Notification of Compliance Status report under 63.11093b		Records as specified in Part 60, Subpart Kb, §60.115b
Gasoline loading racks	Initial notification by 120 days or within 120 days after becoming subject to Subpart BBBBBB		
	Notification of Compliance Status within 60 days after the completion of the relevant compliance demonstration activity (i.e. initial performance test)		Submit a semiannual report including each loading for which vapor tightness documentation is not obtained
			Submit a semiannual excess emission report including exceedances of monitored operating parameters and malfunctions
	Records of throughput for < 250,000 gallons per day made available within 24 hours upon request		

Equipment leaks	Initial notification by 120 days or within 120 days after becoming subject to Subpart BBBBBB	Submit a semiannual report including inspections and the number of leaks not repaired within 15 days of detection
	Notification of Compliance Status within 60 days after the completion of the relevant compliance demonstration activity (i.e. initial performance test)	Submit a semiannual excess emission report including exceedances of monitored operating parameters, malfunctions, and equipment leaks where repair was not attempted within 5 days or completed within 15 days

➢ RESOURCES

- ❖ Air Pollution Control Division at the Colorado Department of Public Health and Environment at (303) 692-3100.

  Website: www.colorado.gov/pacific/cdphe/apcd

  Colorado has requirements for the storage and transfer of petroleum liquids under Regulation 7 which overlap with the NESHAP requirements. The Colorado Air Quality Regulations can be found here: https://www.colorado.gov/pacific/cdphe/aqcc-regs

- ❖ Small Business Assistance Program (SBAP) at the Colorado Department of Public Health and Environment. The SBAP offers free assistance to small businesses with environmental questions.

  Small Business Assistance Program: (303) 692-3175 or (303) 692-3148
  Small Business Ombudsman: (303) 692-2135