State of New Jersey

Department of Environmental Protection

Air Quality Permitting

General Permit (GP-004A)

For

FUEL DISPENSING FACILITIES

This General Permit allows for the construction, installation, reconstruction, modification and operation of the following fuel dispensing facilities:

- FD-4A-1: Marina gasoline storage tank(s) equipped with Stage I vapor control system used exclusively for refueling marine vehicles;

- FD-4A-2: Airport gasoline storage tank(s) equipped with Stage I vapor control system used exclusively for refueling of aircraft;

- FD-4A-3: Fuel service station gasoline storage tank(s) equipped with Stage I vapor control system having a monthly facility throughput of less than or equal to 10,000 gallons that commenced operation on or before June 29, 2003 and/or E-85 storage tank(s) equipped with Stage I vapor control system;

- FD-4A-4: Fuel service station gasoline storage tank(s) equipped with Stage I and Stage II vapor control systems having an annual facility throughput of less than or equal to 9,000,000 gallons and/or E-85 storage tank(s) equipped with Stage I vapor control system; OR

- FD-4A-5: Fuel service station gasoline storage tank(s) equipped with Stage I and Stage II vapor control systems with an additional vapor recovery system control having an annual facility throughput of less than or equal to 15,000,000 gallons and/or E-85 storage tank(s) equipped with Stage I vapor control system.

Each facility may possess only one GP-004A at any time. If a facility wants to add a new source, replace or make changes to an existing source that's already registered under GP-004A, then a new General Permit registration is required. This new General Permit registration will supersede the existing General Permit.

I. DEFINITIONS

The terms used in this General Permit shall have the meanings given to them in N.J.A.C. 7:27 et seq. or as listed below:

Please refer to Subchapter 8 to see the definition of Construction, Installation, Modification and Reconstruction: http://www.state.nj.us/dep/aqm/Sub8.pdf

Additional Vapor Recovery system is a tank pressure management system operated in conjunction with Stage I & Stage II Vapor Recovery Systems and On-board refueling vapor recovery (ORVR) with the purpose of reducing emissions and recovering gasoline vapors during fuel deliveries and refueling vehicles at a gasoline dispensing service station @ >= 95 % recovery efficiency.

Aircraft means a vehicle capable of flying by aerodynamic forces, such as a helicopter, or airplane.

Bulk gasoline terminal means any gasoline facility which receives gasoline by pipeline, ship or barge, and has a gasoline throughput greater than 75,700 liters per day.

CARB means California Air Resources Board.

CARB Certified System means a vapor recovery system, or each of the components of a vapor recovery system, that has been certified by CARB according to its Vapor Recovery Certification Procedure CP-201, as adopted April 12, 1996, or certified by CARB according to its Vapor Recovery Certification Procedure CP-201, as adopted July 25, 2001 or subsequent versions.

Delivery vessel means any vehicle capable of transporting liquid VOC cargo such as gasoline or fuel oil. This term includes, but is not limited to, tank trucks, tank trailers, railroad tank cars, and marine tank vessels.

Department means the New Jersey Department of Environmental Protection.

Discharge means an intentional or unintentional action or omission resulting in the releasing, spilling, leaking, pumping, pouring, emitting, emptying or dumping of a hazardous substance into the waters or onto the lands of the State or into the waters outside the jurisdiction of the State, when damage may result to the lands, waters, or natural resources within the jurisdiction of the State.

Dual Point systems or two-point delivery (Stage I) utilize two separate tank ports for delivery and vapor recovery. The first port is the fill port drop tube. The vapor recovery port is called a “Dry Break”. During a fuel delivery, a vapor recovery device is attached to the “dry break” which automatically opens the poppet valve. The vapor return hose routes the vapors from the tank through the dry break and back to the tanker. (See Figure 4)

E-85 is a fuel blend of 85% ethanol and 15% gasoline that can be used in vehicles specifically designed to use this blend.

Facility means the combination of all structures, building, equipment, storage tanks, source operations, and other operations located on one or more contiguous or adjacent properties owned or operated by the same person.

Fuel Dispensing facilities (includes retail and non-retail service stations) means a facility (Marina, aviation and/or Fuel Service Station) consisting of one or more stationary gasoline storage tanks and / or E-85 together with dispensing devices used to fill vehicle fuel tanks with all grade of gasoline and or E-85 for commercial and non-commercial.

Gasoline means any petroleum distillate or petroleum distillate/oxygenated blend having a Reid vapor pressure of four pounds per square inch (207 millimeters of mercury) absolute or greater, and commonly or commercially known or sold as gasoline.

GDF means Gasoline Dispensing Facility.

MACT means Maximum Achievable Control Technology.

Maximum capacity means, with respect to storage vessels, the maximum design capacity of the storage vessel, not the working capacity of the storage vessel.

Monthly throughput means the total volume of gasoline that is loaded into all gasoline storage tanks during a month, as calculated on a rolling 30-day average.

Pipeline breakout station means a facility along a pipeline containing storage vessels used to relieve surges or receive and store gasoline from the pipeline for reinjection and continued transportation by pipeline or to other facilities.

Pressure relief valve means a type of pressure relief device which consists of a valve that automatically opens when the pressure within the system exceeds a set level and closes when the pressure drops below that level.

Single Point systems (Stage I) utilize a co-axial drop tube which consist of a “pipe within a pipe”. The device is the drop tube located at the tank’s fill port. The product enters the tank through the center (inner) pipe and the tank vapors are returned to the tanker through the outer pipe. The delivery is through one fill unit which has two hoses connected to it. One hose conducts the fuel from the tanker truck to the tank; the second hose returned the displaced vapors to the truck’s compartments. (See Figure 3)

Stage I Vapor Control System means the equipment designed to capture the vapors coming from gasoline storage tanks while they are being filled preventing the emission of organic vapors into the outdoor atmosphere. (See Figure I). There are two kinds of Stage I Vapor control system: dual-point and coaxial.

Stage II Vapor Control System means the equipment designed to capture the vapors that emerge from inside a motor vehicle fuel tank when gasoline from the Storage Tank is dispensed into the motor vehicle tank. The vapors will return to the facility storage tanks and prevents the emission of organic vapors into the outdoor atmosphere. (See Figure 2). There are two basic types of Stage II vapor control system: Balance System and Vacuum Assist System.

Submerged fill pipe means a fill pipe whose point of discharge into the receiving vessel is entirely submerged when the liquid level is no more than 6 inches (15.2 centimeters) from the vessel bottom or, in the case of a top or side-entering bill pipe, when the liquid level is no more than three times the inside radius of the fill pipe plus 5 inches (12.7 centimeters), but no more than 42 inches (106.7 centimeters), above the vessel bottom.

Tank means any container whose walls are constructed of material which is rigid and self-supporting. All tanks must have fixed roof.

Unihose means, with respect to a gasoline dispenser at a gasoline dispensing facility, a dispenser that has only one hose and one nozzle per dispenser side which is used for dispensing all grades of gasoline.

Vacuum Assist System (Stage II) means a mechanical device located in the dispenser housing which establishes a vacuum that pull the gasoline vapors back to the underground tank. This system has several holes in the nozzle (See Figure 5).

Vapor Balance System (Stage II) a mechanical device located in the dispenser housing which transfer vapors from the vehicle tank to the station lowest octane grade storage tank (typically regular unleaded) without the assistance of a vacuum pump. The hose nozzle makes a tight connection with the fill pipe on the vehicular gasoline tank (See Figure 6).

Vapor Recovery System means any device which prevents or controls the **VOC's** emission of any air contaminant directly or indirectly into the outdoor atmosphere.

Vapor-tight means equipment that allows no loss of vapors. Compliance with vapor- tight requirements can be determined by checking to ensure that the concentration at a potential leak source is not equal to or greater than 100 percent of the Lower Explosive Limit when measured with a combustible gas detector, calibrated with propane, at a distance of 1 inch from the source.

II. AUTHORITY

This General Permit is issued under the authority N.J.S.A 26:2C-9.2. This General Permit shall allow for inspections and evaluations to assure conformance with all provisions of N.J.A.C. 7:27 et seq. An opportunity for public comment on this General Permit was provided on **May 21, 2012**.

III. APPLICABILITY

This General Permit allows for the construction, installation, reconstruction, modification and operation of the following fuel dispensing facilities:

- **FD-4A-1:** Marina gasoline storage tank(s) equipped with Stage I vapor control system used exclusively for refueling marine vehicles;

- **FD-4A-2:** Airport gasoline storage tank(s) equipped with Stage I vapor control system used exclusively for refueling of aircraft;

- **FD-4A-3:** Fuel service station gasoline storage tank(s) equipped with Stage I vapor control system having a monthly facility throughput of less than or equal to 10,000 gallons that commenced operation on or before June 29, 2003 and/or E-85 storage tank(s) equipped with Stage I vapor control system;

- **FD-4A-4:** Fuel service station gasoline storage tank(s) equipped with Stage I and Stage II vapor control systems having an annual facility throughput of less than or equal to 9,000,000 gallons and/or E-85 storage tank(s) equipped with Stage I vapor control system; OR

- **FD-4A-5:** Fuel service station gasoline storage tank(s) equipped with Stage I and Stage II vapor control systems with an additional vapor recovery system control having an annual facility throughput of less than or equal to 15,000,000 gallons and/or E-85 storage tank(s) equipped with Stage I vapor control system.

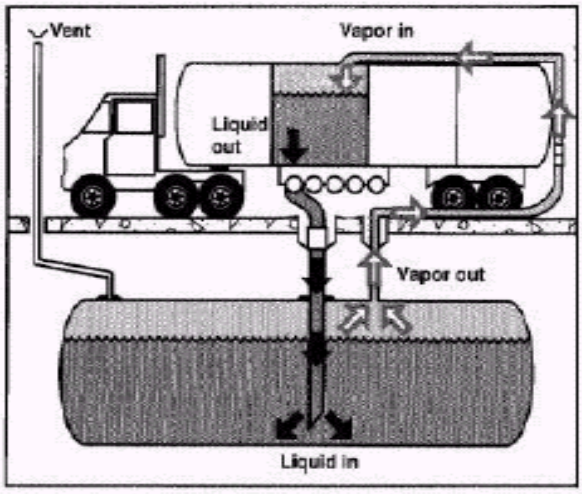


FIGURE 1: Stage I

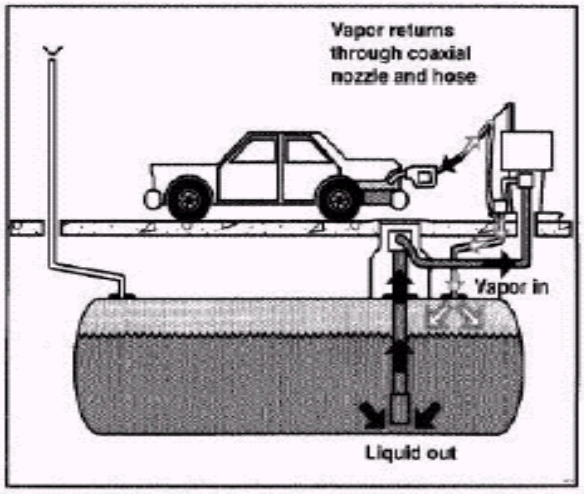


FIGURE 2: Stage II

FIGURE 3: ***One-Point (Coaxial) Delivery***

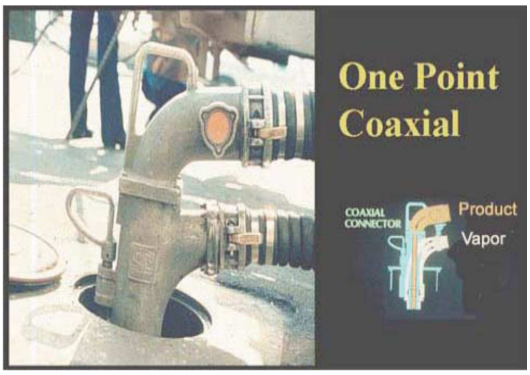
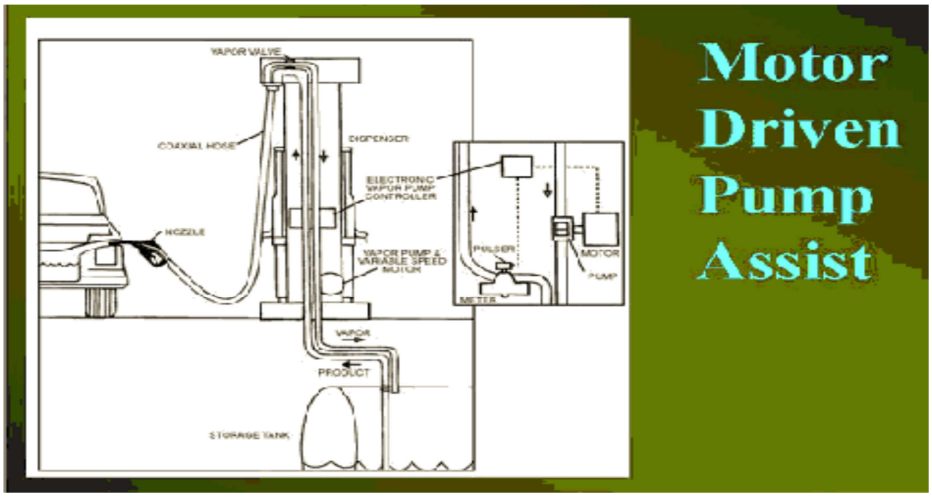


FIGURE 4: ***Two-Point Delivery (not coaxial)***

FIGURE 5: *Vacuum Assist System*



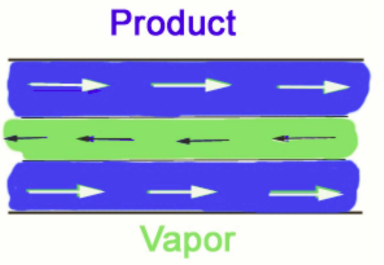
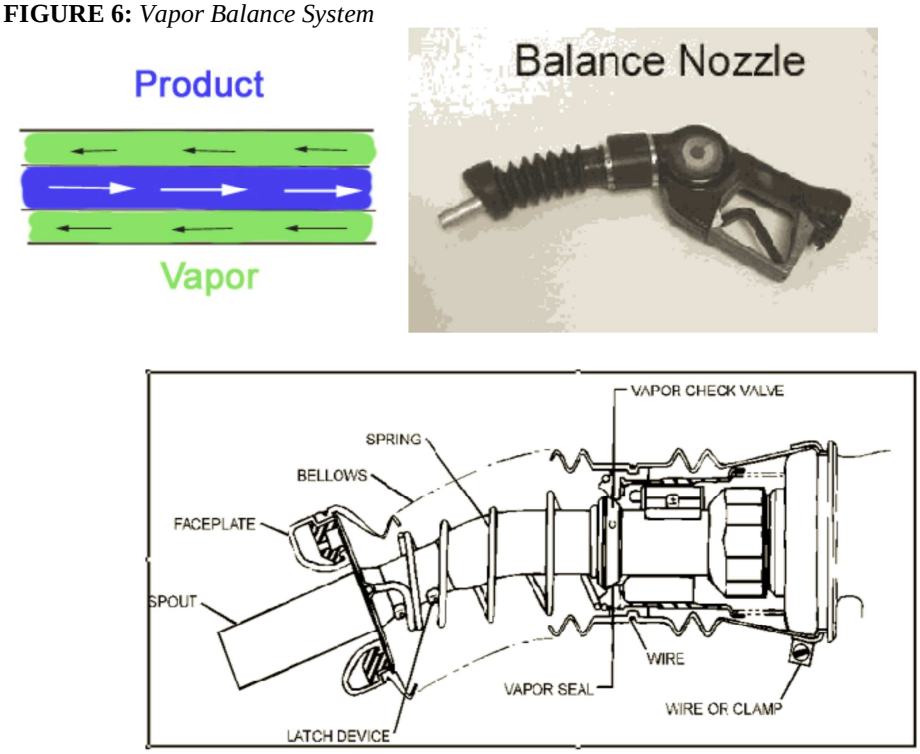


FIGURE 6: *Vapor Balance System*



IV. EXCLUSIONS

This General Permit cannot be used to register the following Facilities or equipment:

1. Fuel Dispensing Facilities with a gasoline throughput higher than 15 Million gallons per year
2. Storage Tanks dispensing any fuel other than E-85 and/or Gasoline such as but not limited to Diesel, Kerosene and Jet Fuel
3. Fuel Dispensing Facilities not equipped with Stage 1
4. Gasoline Distribution Facilities (Bulk Gasoline Terminals and Pipeline Breakout Stations**)**

V. POTENTIAL TO EMIT

The potential-to-emit (PTE) for Storage and Transfer of Fuel Dispensing Facilities covered under this General Permit shall be below than 5.0 tons of VOC per year and 0.062 tons of Benzene per year.

VI. SUBMITTAL / CONTACT INFORMATION:

For assistance or contact information please go to one of the following resources:

1. Underground Storage Tank Enforcement at: http://www.nj.gov/dep/srp/bust/bust.htm
2. Small Business Assistance Program at: http://www.nj.gov/dep/egge/sbap/index.html
3. Bureau of Preconstruction Permits at: http://www.state.nj.us/dep/aqpp/

VII. TESTING REFERENCES

Testing reference materials including CARB test procedures TP-201.3, TP-201.1E, TP-201.4, and TP-201.5. are available at:

http://www.arb.ca.gov/testmeth/vol2/tp201_3.pdf (Static Pressure Performance / TP-201.3)

http://www.arb.ca.gov/testmeth/vol2/tp201.1e_Oct2003.pdf (Leak rate and Cracking Pressure of Pressure/Vacuum Vent Valves /TP201.1E)

http://www.arb.ca.gov/testmeth/vol2/tp201.4_070302.pdf (Dynamic Back Pressure / TP-201.4)

http://www.arb.ca.gov/testmeth/vol2/tp201_5.pdf (Air to Liquid Volume Ratio / TP201.5

VIII. COMPLIANCE PLAN

The Equipment covered by this General Permit, as listed on page 1, are listed in the following four compliance plans:

FD-4A-1: Marina gasoline storage tank(s) equipped with Stage I vapor control system used exclusively for refueling marine vehicles
or
FD-4A-2: Airport gasoline storage tank(s) equipped with Stage I vapor control system used exclusively for refueling of aircraft

Ref#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	This equipment shall not cause any air contaminant, including an air contaminant detectable by the sense of smell, to be present in the outdoor atmosphere in such quantity and duration which is, or tends to be, injurious to human health or welfare, animal or plant life or property, or would unreasonably interfere with the enjoyment of life or property, except in areas over which the owner or operator has exclusive use or occupancy. [N.J.A.C 7:27-8.3(j)]	None	None	None
2	VOC (Total) emissions < 5.0 tons per year. [N.J.A.C 7:27-8.13(h)]	None	None	None
3	HAPs (Total) emissions <= 0.062 tons per year. [N.J.A.C 7:27-8.13(h)]	None	None	None
4	Above ground fuel storage tank(s) exposed to the sun's rays must be painted and maintained white, except that this provision shall not apply to words and logograms applied to the external surface of the storage tank for purposes of identification provided such symbols do not cover more than 20 percent of the external surface area of the tank's sides and top or more than 200 square feet (18.6 square meters), whichever is less. [N.J.A.C. 7:27-16.2(b)1]	None	None	None
5	All hoses, piping, connections, fittings and manholes shall be vapor tight and leak free, except when gauging or sampling is performed. [N.J.A.C 7:27-8.13(a)]	None	None	Upon detecting a leak the Permittee shall immediately take the equipment out of service until the equipment is repaired consistent with manufacturer's specifications. The Permittee shall contact the DEP hotline at 1-877-927-6337 in the event a leak results in a discharge. [N.J.A.C 7:27-8.13(d)]

Ref#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
6	The dispensing devices, associated hoses, and nozzles shall be maintained according to Manufacturer's specifications. [N.J.A.C 7:27-8.13(a)]	Permitee shall visually inspect the dispensing devices daily for leaks (liquid or vapor). [N.J.A.C 7:27-8.13(d)]	Permitee shall record in either a logbook or in readily accessible computer memories the dates and results of the daily inspection and any remedial action taken to repair the leaks. All records must be maintained on site for a minimum of 5 years and made available to the Department upon request. [N.J.A.C 7:27-8.13(d)3]	Upon detecting a leak the Permitee shall immediately take the equipment out of service until the equipment is repaired consistent with manufactures' specifications. [N.J.A.C 7:27-8.13(d)]
7	Each new or replaced tank(s) constructed on or after the effective date of this GP must be equipped with a dual point (no coaxial) vapor balance system. [N.J.A.C 7:27-8.3(a)]	None	None	None
8	The Transfer of gasoline into a receiving vessel shall be made through a submerged fill pipe permanently affixed to the tank. [N.J.A.C. 7:27-16.3(c)1.i] and/or [N.J.A.C. 7:27-16.4(b)]	None	None	None
9	The transfer of gasoline from any delivery vessel into any stationary storage tank shall occur only if such storage tank is equipped and operating a Stage I vapor control system as follows: •A vapor control system that reduces the total applicable VOC emissions into the outdoor atmosphere by no less than 98 % of the applicable VOC by volume in the air vapor mixture displaced during the transfer of gasoline; and • A pressure/vacuum relief valve on each atmospheric vent which remains closed during the gasoline transfer. [N.J.A.C 7:27-16.3 (d)1]	None	None	None

Ref#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
10	The pressure/vacuum relief valve on each atmospheric vent shall remain closed during transfer operations except when the positive cracking pressure is exceeded. [N.J.A.C 7:27-16.3(d) 1. i. (2)]	The Permittee shall inspect the pressure/vacuum relief valve after delivery is completed to ensure that it is in place and intact. [N.J.A.C. 7:27-8.13(d)1]	The Permitee shall retain on site the manufacturer's specifications demonstrating compliance with this requirement for the life of the equipment and make available to the Department upon request. [N.J.A.C. 7:27-8.13(d)3]	None

FD-4A-3: Fuel service station gasoline storage tank(s) equipped with Stage I vapor control system having a monthly facility throughput of less than or equal to 10,000 gallons that commenced operation on or before June 29, 2003 and/or E-85 storage tank(s) equipped with Stage I vapor control system

Ref#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	**Requirements for Gasoline Storage Tank(s) and E-85 Tank(s):** This equipment shall not cause any air contaminant, including an air contaminant detectable by the sense of smell, to be present in the outdoor atmosphere in such quantity and duration which is, or tends to be, injurious to human health or welfare, animal or plant life or property, or would unreasonably interfere with the enjoyment of life or property, except in areas over which the owner or operator has exclusive use or occupancy. [N.J.A.C 7:27-8.3(j)]	None	None	None
2	VOC (Total) emissions < 5.0 tons per year. [N.J.A.C 7:27-8.13(h)]	None	None	None
3	HAPs (Total) emissions <= 0.062 tons per year. [N.J.A.C 7:27-8.13(h)]	None	None	None
4	Above ground fuel storage tank(s) exposed to the sun's rays must be painted and maintained white, except that this provision shall not apply to words and logograms applied to the external surface of the storage tank for purposes of identification provided such symbols do not cover more than 20 percent of the external surface area of the tank's sides and top or more than 200 square feet (18.6 square meters), whichever is less. [N.J.A.C. 7:27-16.2(b)1]	None	None	None
5	All hoses, piping, connections, fittings and manholes shall be vapor tight and leak free, except when gauging or sampling is performed. [N.J.A.C 7:27-8.13(a)]	None	None	Upon detecting a leak the Permittee shall immediately take the equipment out of service until the equipment is repaired consistent with manufacturer's specifications. The Permittee shall contact the DEP hotline at 1-877-927-6337 in the event a leak results in a discharge. [N.J.A.C 7:27-8.13(d)]

Ref#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
6	The dispensing devices, associated hoses, and nozzles shall be maintained according to Manufacturer's specifications. [N.J.A.C 7:27-8.13(a)]	Permitee shall visually inspect the dispensing devices daily for leaks (liquid or vapor). [N.J.A.C 7:27-8.13(d)]	Permitee shall record in either a logbook or in readily accessible computer memories the dates and results of the daily inspection and any remedial action taken to repair the leaks. All records must be maintained on site for a minimum of 5 years and made available to the Department upon request. [N.J.A.C 7:27-8.13(d)3]	Upon detecting a leak the Permitee shall immediately take the equipment out of service until the equipment is repaired consistent with manufactures' specifications. [N.J.A.C 7:27-8.13(d)]
7	Each new or replaced tank(s) constructed on or after the effective date of this GP must be equipped with a dual point (no coaxial) vapor balance system. [N.J.A.C 7:27-8.3(a)]	None	None	None
8	The Transfer of gasoline into a receiving vessel shall be made through a submerged fill pipe permanently affixed to the tank. [N.J.A.C. 7:27-16.3(c)1.i] and/or [N.J.A.C. 7:27-16.4(b)]	None	None	None
9	The transfer of gasoline and/or E-85 from any delivery vessel into any stationary storage tank shall occur only if such storage tank is equipped and operating a Stage I vapor control system as follows: •A vapor control system that reduces the total applicable VOC emissions into the outdoor atmosphere by no less than 98 % of the applicable VOC by volume in the air vapor mixture displaced during the transfer of gasoline; and • A pressure/vacuum relief valve on each atmospheric vent which remains closed during the gasoline transfer. [N.J.A.C 7:27-16.3 (d)1]	None	None	None
10	The pressure/vacuum relief valve on each atmospheric vent shall remain closed during transfer operations except when the positive cracking pressure is exceeded. [N.J.A.C 7:27-16.3(d) 1. i. (2)]	The Permittee shall inspect the pressure/vacuum relief valve after delivery is completed to ensure that it is in place and intact. [N.J.A.C. 7:27-8.13(d)1]	The Permitee shall retain on site the manufacturer's specifications demonstrating compliance with this requirements for the life of the equipment and make available to the Department upon request. [N.J.A.C. 7:27-8.13(d)3]	None

Ref#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
11	**Requirements for Gasoline Storage Tank(s) only:** GDF which commenced operation on or before June 29, 2003 shall keep a Facility monthly throughput of less than or equal to 10,000 gallons in any month. [N.J.A.C 7:27-8.13(h)]	Permitee shall monitor monthly gasoline throughput by inspecting fuel flow totalizer on each pump once daily. [N.J.A.C 7:27-8.13(d)]	Permitee shall record in either a logbook or in readily accessible computer memories, monthly gasoline throughput rates. All records must be maintained on site for a minimum of 5 years and make available to the Department upon request. [N.J.A.C 7:27-8.13(d)3]	None
12	For GDF, the Permittee must minimize spills, clean up spills expeditiously; cover gasoline containers and storage tank fill pipes with gasketed seal and minimize gasoline sent to open collection systems. 40CFR Part 63.11117	None	None	None
13	For GDF constructed on or before November 9, 2006, the transfer of gasoline to the Storage tank shall be made through a Submerged fill pipes permanently affixed to the tank and with a discharge that is no more than 12 inches from the tank bottom. Submerged fill pipes not meeting the 12 inch specification of this section are allowed if the owner or operator demonstrates that the liquid level in the tank is always above the entire opening of the fill pipe. 40CFR Part 63.11117	None	The Permittee shall retain documentation and provide demonstration that the pipe discharge is no more than 12 inches in either a logbook or computer data system. All records must be maintained on site for a minimum of 5 years and make available to the Department upon request. [N.J.A.C. 7:27-8.13(d)3]	None
14	For GDF constructed after November 9, 2006, the transfer of gasoline to the Storage tank shall be made through a Submerged fill pipes permanently affixed to the tank and with a discharge that is no more than 6 inches from the tank bottom. Submerged fill pipes not meeting the 6 inch specification of this section are allowed if the owner or operator demonstrates that the liquid level in the tank is always above the entire opening of the fill pipe. 40CFR Part 63.11117	None	The Permittee shall retain documentation and provide demonstration that the pipe discharge is no more than 6 inches in either a logbook or computer data system. All records must be maintained on site for a minimum of 5 years and make available to the Department upon request. [N.J.A.C. 7:27-8.13(d)3]	None

FD-4A-4: Fuel service sation gasoline storage tank(s) equipped with Stage I and II vapor control systems having an annual facility throughput of less than or equal to 9,000,000 gallons and/or E-85 storage tank(s) equipped with Stage I vapor control system

Ref#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	**Requirements for Gasoline Storage Tank(s) and E-85 Tank(s):** This equipment shall not cause any air contaminant, including an air contaminant detectable by the sense of smell, to be present in the outdoor atmosphere in such quantity and duration which is, or tends to be, injurious to human health or welfare, animal or plant life or property, or would unreasonably interfere with the enjoyment of life or property, except in areas over which the owner or operator has exclusive use or occupancy. [N.J.A.C 7:27-8.3(j)]	None	None	None
2	VOC (Total) emissions < 5.0 tons per year. [N.J.A.C 7:27-8.13(h)]	None	None	None
3	HAPs (Total) emissions <= 0.062 tons per year. [N.J.A.C 7:27-8.13(h)]	None	None	None
4	Above ground fuel storage tank(s) exposed to the sun’s rays must be painted and maintained white, except that this provision shall not apply to words and logograms applied to the external surface of the storage tank for purposes of identification provided such symbols do not cover more than 20 percent of the external surface area of the tank's sides and top or more than 200 square feet (18.6 square meters), whichever is less. [N.J.A.C. 7:27-16.2(b)1]	None	None	None
5	All hoses, piping, connections, fittings and manholes shall be vapor tight and leak free, except when gauging or sampling is performed. [N.J.A.C 7:27-8.13(a)]	None	None	Upon detecting a leak the Permittee shall immediately take the equipment out of service until the equipment is repaired consistent with manufacturer’s specifications. The Permittee shall contact the DEP hotline at 1-877-927-6337 in the event a leak results in a discharge. [N.J.A.C 7:27-8.13(d)]

Ref#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
6	The dispensing devices, associated hoses, and nozzles shall be maintained according to Manufacturer's specifications. [N.J.A.C 7:27-8.13(a)]	Permitee shall visually inspect the dispensing devices daily for leaks (liquid or vapor). [N.J.A.C 7:27-8.13(d)]	Permitee shall record in either a logbook or in readily accessible computer memories the dates and results of the daily inspection and any remedial action taken to repair the leaks. All records must be maintained on site for a minimum of 5 years and made available to the Department upon request. [N.J.A.C 7:27-8.13(d)3]	Upon detecting a leak the Permitee shall immediately take the equipment out of service until the equipment is repaired consistent with manufactures' specifications. [N.J.A.C 7:27-8.13(d)]
7	Each new or replaced tank(s) constructed on or after the effective date of this GP, must be equipped with a dual point (no coaxial) vapor balance system. [N.J.A.C 7:27-8.3(a)]	None	None	None
8	The Transfer of gasoline into a receiving vessel shall be made through a submerged fill pipe permanently affixed to the tank. [N.J.A.C. 7:27-16.3(c)1.i] and/or [N.J.A.C. 7:27-16.4(b)]	None	None	None
9	The transfer of gasoline and/or E-85 from any delivery vessel into any stationary storage tank shall occur only if such storage tank is equipped and operating a Stage I vapor control system as follows: •A vapor control system that reduces the total applicable VOC emissions into the outdoor atmosphere by no less than 98 % of the applicable VOC by volume in the air vapor mixture displaced during the transfer of gasoline; and • A pressure/vacuum relief valve on each atmospheric vent which remains closed during the gasoline transfer; or • A floating roof tank [N.J.A.C 7:27-16.3 (d)1]	None	None	None
10	The pressure/vacuum relief valve on each atmospheric vent shall remain closed during transfer operations except when the positive cracking pressure is exceeded. [N.J.A.C 7:27-16.3(d) 1. i. (2)]	The Permittee shall inspect the pressure/vacuum relief valve after delivery is completed to ensure that it is in place and intact. [N.J.A.C. 7:27-8.13(d)1]	The Permitee shall retain on site the manufacturer's specifications demonstrating compliance with this requirement for the life of the equipment and make available to the Department upon request. [N.J.A.C. 7:27-8.13(d)3]	None

Ref#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
11	**Requirements for Gasoline Storage Tank(s) only:** All vapor control systems located at the facility must be California Air Resource Board (CARB) Certified and operate in accordance with manufacturer's specifications. [N.J.A.C 7:27-16.3(e)2]	None	The Permitee shall retain on site the manufacturer's specifications demonstrating compliance with the requirements of this section (both Stage I and Stage II). A Copy of the CARB Executive Order for each Stage 2 Vapor Control system shall be maintained on site for the life of the equipment and made available to the Department upon request. Any of the following changes listed below must be recorded in either a log book or in readily accessible computer memories listing a description of the change and the date on which it occurred. These records shall be made available to the Department upon request: • installation or modification of Gasoline Stage II Vapor Control System, • replacement of any existing gasoline tank(s), • addition of any new gasoline tank(s), • replacement of any underground vapor return lines, or • change of material stored to gasoline. Records of these changes must be maintained on site for a minimum of 5 years. [N.J.A.C. 7:27-8.13(d)3]	None.
12	Each dispenser shall be equipped with breakaways. [N.J.A.C 7:27-8.13(a)]	None	None	None
13	The annual throughput shall not exceed 9 Million gallons of gasoline per consecutive 12 month period year. [N.J.A.C 7:27-8.3(a)]	Permitee shall monitor monthly gasoline throughput by inspecting fuel flow totalizer on each pump once daily. The permitee shall sum the monthly throughput and the previous eleven (11) months to obtain the annual throughput. [N.J.A.C 7:27-8.13(d)]	Permitee shall record in either a logbook or in readily accessible computer memories, monthly gasoline throughput rates. All records must be maintained on site for a minimum of 5 years and make available to the Department upon request. [N.J.A.C 7:27-8.13(d)3]	None

Ref#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
14	The transfer of gasoline from any stationary storage tank into any gasoline laden vehicular fuel tank shall occur only if this is equipped and operating a Stage II vapor control system as follows: •A vapor control system that reduces the total applicable VOC emissions into the outdoor atmosphere by no less than 95 % of the applicable VOC by volume in the air vapor mixture displaced during the transfer of gasoline; and • Prevents overfilling and spillage [N.J.A.C 7:27-16.3 (e)1]	None	None	None
15	• Each dispensing device shall be equipped with a check valve in the dispenser or nozzle • Each dispensing device and its nozzles shall be designed to be compatible such that: 1. The nozzle together with its vapor boot fits into the housing in which it is hung on the dispensing device; and 2. The nozzle's vapor check valve remains in the closed position when the nozzle is properly hung on the dispensing device. • Each nozzle with a vacuum assist vapor control system shall be equipped with a splash guard that prevents overfilling and spillage during refueling. For GDFs which dispensed gasoline on and after 6/29/2003, for new tanks constructed or replaced on or after the effective date of this GP: • All of the above, plus: • Each dispensing device at a new GDF that dispenses more than one grade of gasoline shall utilize a unihose system. [N.J.A.C 7:27-16.3 (e)3 and (4)]	None	The Permitee shall retain on site the manufacturer's specifications demonstrating compliance with this requirements for the life of the equipment and make available to the Department upon request [N.J.A.C. 7:27-8.13(d)3]	None

Ref#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
16	**Testing Requirements for GDF** Permitee shall conduct and pass a Static Pressure Performance Test pursuant to California Air Resource Board (CARB) TP-201.3 (http://www.arb.ca.gov/testmeth/vol2/tp201_3.pdf) within 90 days of permit approval and within 90 days of the following changes and at least once in every 12 month period thereafter: • installation or modification of Gasoline Stage II Vapor Control System, • replacement of any existing gasoline tank(s), • addition of any new gasoline tank(s), • replacement of any underground vapor return lines, or • change of material stored to gasoline [N.J.A.C 7:27-16.3(i)]	None	Permitee shall maintain test results, which must include date of the test, the time the test was conducted and the results. All records, including test results, must be maintained on site for at least three years and made available to the Department upon request. [N.J.A.C 7:27-8.13(d)3]	Upon failure of the test the Permitee shall repair and retest any vapor control system within 14 days of failure. Upon failure of the retest the Permitee shall notify the Department in writing within 72 hours of the failure at the following address: NJDEP Air & Hazardous Materials Compliance & Enforcement Mail Code 401-04B PO Box 420 (401 East State Street) Trenton, NJ 08625-0420 [N.J.A.C 7:27-16.3(i)v]
17	**Testing or Replacement Requirements for GDF** **Option No.1** Permitee shall conduct and pass a Pressure Vacuum Valve Test pursuant to California Air Resource Board (CARB) TP-201.1E (http://www.arb.ca.gov/testmeth/vol2/tp201.1e_Oct2003.pdf) within 90 days of permit approval and at least once every 12 months period thereafter and within 90 days of the following changes and at least once in every 12 month period thereafter: • installation or modification of Gasoline Stage II Vapor Control System, • replacement of any existing gasoline tank(s), • addition of any new gasoline tank(s), • replacement of any underground vapor return lines, or • change of material stored to gasoline; or **Option No.2** Permittee shall replace the Pressure Vacuum Valve every two years. [N.J.A.C 7:27-16.3(i)]	None	**For Option No.1:** Permitee shall maintain test results, which must include date of the test, the time the test was conducted and the results. All records, including test results, must be maintained on site for at least three years and made available to the Department upon request; **or** **For Option No.2:** Permittee shall record the day when the Pressure Vacuum Valve has been replaced. [N.J.A.C 7:27-8.13(d)3]	**For Option No.1 only:** Upon failure of the test the Permitee shall repair and retest any vapor control system within 14 days of failure. Upon failure of the retest the Permitee shall notify the Department in writing within 72 hours of the failure at the following address: NJDEP Air & Hazardous Materials Compliance & Enforcement Mail Code 401-04B PO Box 420 (401 East State Street) Trenton, NJ 08625-0420 [N.J.A.C 7:27-16.3(i)v]

Ref#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
18	**Testing Requirements for GDF** Permitee shall conduct and pass a Dynamic Backpressure Performance Test: pursuant to California Air Resource Board (CARB) TP-201.4 (http://www.arb.ca.gov/testmeth/vol2/tp201.4_070302.pdf) within 90 days of permit approval and at least once every 36 months period thereafter and within 90 days of the following changes and at least once in every 36 month period thereafter: • installation or modification of Gasoline Stage II Vapor Control System, • replacement of any existing gasoline tank(s), • addition of any new gasoline tank(s), • replacement of any underground vapor return lines, or • change of material stored to gasoline [N.J.A.C 7:27-16.3(i)]	None	Permitee shall maintain test results, which must include date of the test, the time the test was conducted and the results. All records, including test results, must be maintained on site for at least three years and made available to the Department upon request. [N.J.A.C 7:27-8.13(d)3]	Upon failure of the test the Permitee shall repair and retest any vapor control system within 14 days of failure. Upon failure of the retest the Permitee shall notify the Department in writing within 72 hours of the failure at the following address: NJDEP Air & Hazardous Materials Compliance & Enforcement Mail Code 401-04B PO Box 420 (401 East State Street) Trenton, NJ 08625-0420 [N.J.A.C 7:27-16.3(i)v]
19	**Testing Requirements for GDF with vacuum assist systems only** Permitee shall conduct and pass a Air to liquid Volume Ratio Test Pursuant to California Air Resource Board (CARB) TP-201.5 (http://www.arb.ca.gov/testmeth/vol2/tp201_5.pdf) within 90 days of permit approval and at least once every 12 months period thereafter and within 90 days of the following changes and at least once in every 12 month period thereafter: • installation or modification of Gasoline Stage II Vapor Control System, • replacement of any existing gasoline tank(s), • addition of any new gasoline tank(s), • replacement of any underground vapor return lines, or • change of material stored to gasoline [N.J.A.C 7:27-16.3(i)]	None	Permitee shall maintain test results, which must include date of the test, the time the test was conducted and the results. All records, including test results, must be maintained on site for at least three years and made available to the Department upon request. [N.J.A.C 7:27-8.13(d)3]	Upon failure of the test the Permitee shall repair and retest any vapor control system within 14 days of failure. Upon failure of the retest the Permitee shall notify the Department in writing within 72 hours of the failure at the following address: NJDEP Air & Hazardous Materials Compliance & Enforcement Mail Code 401-04B PO Box 420 (401 East State Street) Trenton, NJ 08625-0420 [N.J.A.C 7:27-16.3(i)v]

Ref#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
20	For GDF, the Permittee must minimize spills, clean up spills expeditiously; cover gasoline containers and storage tank fill pipes with gasketed seal and minimize gasoline sent to open collection systems. 40CFR Part 63.11117	None	None	None
21	For GDF constructed on or before November 9, 2006, the transfer of gasoline to the Storage tank shall be made through a Submerged fill pipes permanently affixed to the tank and with a discharge that is no more than 12 inches from the tank bottom. Submerged fill pipes not meeting the 12 inch specification of this section are allowed if the owner or operator demonstrates that the liquid level in the tank is always above the entire opening of the fill pipe. 40CFR Part 63.11117	None	The Permittee shall retain documentation and provide demonstration that the pipe discharge is no more than 12 inches in either a logbook or computer data system. All records must be maintained on site for a minimum of 5 years and make available to the Department upon request. [N.J.A.C 7:27-8.13(d)3]	None
22	For GDF constructed after November 9, 2006, the transfer of gasoline to the Storage tank shall be made through a Submerged fill pipes permanently affixed to the tank and with a discharge that is no more than 6 inches from the tank bottom. Submerged fill pipes not meeting the 6 inch specification of this section are allowed if the owner or operator demonstrates that the liquid level in the tank is always above the entire opening of the fill pipe. 40CFR Part 63.11117	None	The Permittee shall retain documentation and provide demonstration that the pipe discharge is no more than 6 inches in either a logbook or computer data system. All records must be maintained on site for a minimum of 5 years and make available to the Department upon request. [N.J.A.C 7:27-8.13(d)3]	None
23	For GDF with a monthly throughput greater than or equal to 100,000 gallons of gasoline, all vapor connections and lines on the storage tank shall be equipped with closures that seal upon disconnect. 40CFR Part 63.11118	None	None	None

Ref#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
24	For GDF with a monthly throughput greater than or equal to 100,000 gallons of gasoline, the vapor line from the gasoline storage tank to the gasoline cargo tank shall be vapor-tight. 40CFR Part 63.11118	None	None	None
25	For GDF with a monthly throughput greater than or equal to 100,000 gallons of gasoline, the vapor recovery and product adaptors, and the method of connection with the delivery elbow, shall be designed so as to prevent the over-tightening or loosening of fittings during normal delivery operations. 40CFR Part 63.11118	None	None	None
26	For GDF with a monthly throughput greater than or equal to 100,000 gallons of gasoline, Liquid fill connections for all systems shall be equipped with vapor-tight caps. 40CFR Part 63.11118	None	None	None
27	For GDF with a monthly throughput greater than or equal to 100,000 gallons of gasoline, Pressure/vacuum (PV) vent valves shall be installed on the storage tank vent pipes. The pressure specifications for PV vent valves shall 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, shall 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. 40CFR Part 63.11118	None	None	None
28	For GDF with a monthly throughput greater than or equal to 100,000 gallons of gasoline, must be equipped with a dual point (no coaxial) vapor balance system for GDF or tanks constructed after November 9, 2006, and reconstructed GDF. 40CFR Part 63.11118	None	None	None

FD-4A-5: Fuel service station gasoline storage tank(s) equipped with Stage I and Stage II vapor control systems with and additional vapor recovery system control having an annual facility throughput of less than or equal to 15,000,000 gallons and/or E-85 storage tank(s) equipped with Stage I vapor control system.

Ref#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	**Requirements for Gasoline Storage Tank(s) and E-85 Tank(s):** This equipment shall not cause any air contaminant, including an air contaminant detectable by the sense of smell, to be present in the outdoor atmosphere in such quantity and duration which is, or tends to be, injurious to human health or welfare, animal or plant life or property, or would unreasonably interfere with the enjoyment of life or property, except in areas over which the owner or operator has exclusive use or occupancy. [N.J.A.C 7:27-8.3(j)]	None	None	None
2	VOC (Total) emissions < 5.0 tons per year. [N.J.A.C 7:27-8.13(h)]	None	None	None
3	HAPs (Total) emissions <= 0.062 tons per year. [N.J.A.C 7:27-8.13(h)]	None	None	None
4	Above ground fuel storage tank(s) exposed to the sun's rays must be painted and maintained white, except that this provision shall not apply to words and logograms applied to the external surface of the storage tank for purposes of identification provided such symbols do not cover more than 20 percent of the external surface area of the tank's sides and top or more than 200 square feet (18.6 square meters), whichever is less. [N.J.A.C. 7:27-16.2(b)1]	None	None	None
5	All hoses, piping, connections, fittings and manholes shall be vapor tight and leak free, except when gauging or sampling is performed. [N.J.A.C 7:27-8.13(a)]	None	None	Upon detecting a leak the Permittee shall immediately take the equipment out of service until the equipment is repaired consistent with manufacturer's specifications. The Permittee shall contact the DEP hotline at 1-877-927-6337 in the event a leak results in a discharge. [N.J.A.C 7:27-8.13(d)]

Ref#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
6	The dispensing devices, associated hoses, and nozzles shall be maintained according to Manufacturer's specifications. [N.J.A.C 7:27-8.13(a)]	Permitee shall visually inspect the dispensing devices daily for leaks (liquid or vapor). [N.J.A.C 7:27-8.13(d)]	Permitee shall record in either a logbook or in readily accessible computer memories the dates and results of the daily inspection and any remedial action taken to repair the leaks. All records must be maintained on site for a minimum of 5 years and made available to the Department upon request. [N.J.A.C 7:27-8.13(d)3]	Upon detecting a leak the Permitee shall immediately take the equipment out of service until the equipment is repaired consistent with manufactures' specifications. [N.J.A.C 7:27-8.13(d)]
7	Each new or replaced tank(s) constructed on or after the effective date of this GP, must be equipped with a dual point (no coaxial) vapor balance system. [N.J.A.C 7:27-8.3(a)]	None	None	None
8	The Transfer of gasoline into a receiving vessel shall be made through a submerged fill pipe permanently affixed to the tank. [N.J.A.C. 7:27-16.3(c)1.i] and/or [N.J.A.C. 7:27-16.4(b)]	None	None	None
9	The transfer of gasoline and/or E-85 from any delivery vessel into any stationary storage tank shall occur only if such storage tank is equipped and operating a Stage I vapor control system as follows: • vapor control system that reduces the total applicable VOC emissions into the outdoor atmosphere by no less than 98 % of the applicable VOC by volume in the air vapor mixture displaced during the transfer of gasoline; and • A pressure/vacuum relief valve on each atmospheric vent which remains closed during the gasoline transfer; or • A floating roof tank [N.J.A.C 7:27-16.3 (d)1]	None	None	None
10	The pressure/vacuum relief valve on each atmospheric vent shall remain closed during transfer operations except when the positive cracking pressure is exceeded. [N.J.A.C 7:27-16.3(d) 1. i. (2)]	The Permittee shall inspect the pressure/vacuum relief valve after delivery is completed to ensure that it is in place and intact. [N.J.A.C. 7:27-8.13(d)1]	The Permitee shall retain on site the manufacturer's specifications demonstrating compliance with this requirement for the life of the equipment and make available to the Department upon request. [N.J.A.C. 7:27-8.13(d)3]	None

Ref#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
11	**Requirements for Gasoline Storage Tank(s) only:** All vapor control systems located at the facility must be California Air Resource Board (CARB) Certified and operate in accordance with manufacturer's specifications. [N.J.A.C 7:27-16.3(e)2]	None	The Permitee shall retain on site the manufacturer's specifications demonstrating compliance with the requirements of this section (both Stage I and Stage II). A Copy of the CARB Executive Order for each Stage II Vapor Control system shall be maintained on site for the life of the equipment and made available to the Department upon request. Any of the following changes listed below must be recorded in either a log book or in readily accessible computer memories listing a description of the change and the date on which it occurred. These records shall be made available to the Department upon request: • installation or modification of Gasoline Stage II Vapor Control system, • replacement of any existing gasoline tank(s), • addition of any new gasoline tank(s), • replacement of any underground vapor return lines, or • change of material stored to gasoline. Records of these changes must be maintained on site for a minimum of 5 years. [N.J.A.C. 7:27-8.13(d)3]	None.
12	Each dispenser shall be equipped with breakaways. [N.J.A.C 7:27-8.13(a)]	None	None	None
13	The annual throughput shall not exceed 15 Million gallons of gasoline per consecutive 12 month period year. [N.J.A.C 7:27-8.3(a)]	Permitee shall monitor monthly gasoline throughput by inspecting fuel flow totalizer on each pump once daily. The permitee shall sum the monthly throughput and the previous eleven (11) months to obtain the annual throughput. [N.J.A.C 7:27-8.13(d)]	Permitee shall record in either a logbook or in readily accessible computer memories, monthly gasoline throughput rates. All records must be maintained on site for a minimum of 5 years and make available to the Department upon request. [N.J.A.C 7:27-8.13(d)3]	None
14	Gasoline Dispensing Service station shall be equipped with an additional Vapor Recovery System. [N.J.A.C 7:27-8.13(a)]	None	The Permitee shall retain on site the manufacturer's specifications demonstrating compliance with this requirement and shall be available to the Department upon request. [N.J.A.C. 7:27-8.13(d)3]	None

Ref#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
15	The transfer of gasoline from any stationary storage tank into any gasoline laden vehicular fuel tank shall occur only if this is equipped and operating a Stage II vapor control system as follows: •A vapor control system that reduces the total applicable VOC emissions into the outdoor atmosphere by no less than 95 % of the applicable VOC by volume in the air vapor mixture displaced during the transfer of gasoline; and • Prevents overfilling and spillage [N.J.A.C 7:27-16.3 (e)1]	None	None	None
16	• Each dispensing device shall be equipped with a check valve in the dispenser or nozzle • Each dispensing device and its nozzles shall be designed to be compatible such that: 1. The nozzle together with its vapor boot fits into the housing in which it is hung on the dispensing device; and 2. The nozzle's vapor check valve remains in the closed position when the nozzle is properly hung on the dispensing device. • Each nozzle with a vacuum assist vapor control system shall be equipped with a splash guard that prevents overfilling and spillage during refueling. For GDFs which dispensed gasoline on and after 6/29/2003, for new tanks constructed or replaced on or after the effective date of this GP: • All of the above, plus: • Each dispensing device at a new GDF that dispenses more than one grade of gasoline shall utilize a unihose system. [N.J.A.C 7:27-16.3 (e)3 and (4)]	None	The Permitee shall retain on site the manufacturer's specifications demonstrating compliance with this requirements for the life of the equipment and make available to the Department upon request [N.J.A.C. 7:27-8.13(d)3]	None

Ref#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
17	**Testing Requirements for GDF** Permitee shall conduct and pass a Static Pressure Performance Test pursuant to California Air Resource Board (CARB) TP-201.3 (http://www.arb.ca.gov/testmeth/vol2/tp201_3.pdf) within 90 days of permit approval and within 90 days of the following changes and at least once in every 12 month period thereafter: • installation or modification of Gasoline Stage II Vapor Control System, • replacement of any existing gasoline tank(s), • addition of any new gasoline tank(s), • replacement of any underground vapor return lines, or • change of material stored to gasoline [N.J.A.C 7:27-16.3(i)]	None	Permitee shall maintain test results, which must include date of the test, the time the test was conducted and the results. All records, including test results, must be maintained on site for at least three years and made available to the Department upon request. [N.J.A.C 7:27-8.13(d)3]	Upon failure of the test the Permitee shall repair and retest any vapor control system within 14 days of failure. Upon failure of the retest the Permitee shall notify the Department in writing within 72 hours of the failure at the following address: NJDEP Air & Hazardous Materials Compliance & Enforcement Mail Code 401-04B PO Box 420 (401 East State Street) Trenton, NJ 08625-0420 [N.J.A.C 7:27-16.3(i)v]
18	**Testing or Replacement Requirements for GDF** **Option No.1** Permitee shall conduct and pass a Pressure Vacuum Valve Test pursuant to California Air Resource Board (CARB) TP-201.1E (http://www.arb.ca.gov/testmeth/vol2/tp201.1e_Oct2003.pdf) within 90 days of permit approval and at least once every 12 months period thereafter and within 90 days of the following changes and at least once in every 12 month period thereafter: • installation or modification of Gasoline Stage II Vapor Control System, • replacement of any existing gasoline tank(s), • addition of any new gasoline tank(s), • replacement of any underground vapor return lines, or • change of material stored to gasoline; or **Option No.2** Permittee shall replace the Pressure Vacuum Valve every two years. [N.J.A.C 7:27-16.3(i)]	None	**For Option No.1:** Permitee shall maintain test results, which must include date of the test, the time the test was conducted and the results. All records, including test results, must be maintained on site for at least three years and made available to the Department upon request; **or** **For Option No.2** Permittee shall record the day when the Pressure Vacuum Valve has been replaced. [N.J.A.C 7:27-8.13(d)3]	**For Option No.1 only:** Upon failure of the test the Permitee shall repair and retest any vapor control system within 14 days of failure. Upon failure of the retest the Permitee shall notify the Department in writing within 72 hours of the failure at the following address: NJDEP Air & Hazardous Materials Compliance & Enforcement Mail Code 401-04B PO Box 420 (401 East State Street) Trenton, NJ 08625-0420 [N.J.A.C 7:27-16.3(i)v]

Ref#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
19	**Testing Requirements for GDF** Permitee shall conduct and pass a Dynamic Backpressure Performance Test: pursuant to California Air Resource Board (CARB) TP-201.4 (http://www.arb.ca.gov/testmeth/vol2/tp201.4_070302.pdf) within 90 days of permit approval and at least once every 36 months period thereafter and within 90 days of the following changes and at least once in every 36 month period thereafter: • installation or modification of Gasoline Stage II Vapor Control System, • replacement of any existing gasoline tank(s), • addition of any new gasoline tank(s), • replacement of any underground vapor return lines, or • change of material stored to gasoline [N.J.A.C 7:27-16.3(i)]	None	Permitee shall maintain test results, which must include date of the test, the time the test was conducted and the results. All records, including test results, must be maintained on site for at least three years and made available to the Department upon request. [N.J.A.C 7:27-8.13(d)3]	Upon failure of the test the Permitee shall repair and retest any vapor control system within 14 days of failure. Upon failure of the retest the Permitee shall notify the Department in writing within 72 hours of the failure at the following address: NJDEP Air & Hazardous Materials Compliance & Enforcement Mail Code 401-04B PO Box 420 (401 East State Street) Trenton, NJ 08625-0420 [N.J.A.C 7:27-16.3(i)v]
20	**Testing Requirements for GDF with vacuum assist systems only** Permitee shall conduct and pass a Air to liquid Volume Ratio Test Pursuant to California Air Resource Board (CARB) TP-201.5 (http://www.arb.ca.gov/testmeth/vol2/tp201_5.pdf) within 90 days of permit approval and at least once every 12 months period thereafter and within 90 days of the following changes and at least once in every 12 month period thereafter: • installation or modification of Gasoline Stage II Vapor Control System, • replacement of any existing gasoline tank(s), • addition of any new gasoline tank(s), • replacement of any underground vapor return lines, or • change of material stored from to gasoline [N.J.A.C 7:27-16.3(i)]	None	Permitee shall maintain test results, which must include date of the test, the time the test was conducted and the results. All records, including test results, must be maintained on site for at least three years and made available to the Department upon request. [N.J.A.C 7:27-8.13(d)3]	Upon failure of the test the Permitee shall repair and retest any vapor control system within 14 days of failure. Upon failure of the retest the Permitee shall notify the Department in writing within 72 hours of the failure at the following address: NJDEP Air & Hazardous Materials Compliance & Enforcement Mail Code 401-04B PO Box 420 (401 East State Street) Trenton, NJ 08625-0420 [N.J.A.C 7:27-16.3(i)v]

Ref#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
21	The additional vapor recovery system control shall be operated and maintained in accordance with manufacturer specifications. [N.J.A.C 7:27-8.13(a)]	None	The Permittee shall retain the manufacturer's specifications for the control apparatus confirming the percent of recovery. Records shall be made readily accessible for the Department's inspection in either a logbook or computer data system. [N.J.A.C. 7:27-8.13(d)3]	None
22	For GDF, the Permittee must minimize spills, clean up spills expeditiously; cover gasoline containers and storage tank fill pipes with gasketed seal and minimize gasoline sent to open collection systems. 40CFR Part 63.11117	None	None	None
23	For GDF constructed on or before November 9, 2006, the transfer of gasoline to the Storage tank shall be made through a Submerged fill pipes permanently affixed to the tank and with a discharge that is no more than 12 inches from the tank bottom. Submerged fill pipes not meeting the 12 inch specification of this section are allowed if the owner or operator demonstrates that the liquid level in the tank is always above the entire opening of the fill pipe. 40CFR Part 63.11117	None	The Permittee shall retain documentation and provide demonstration that the pipe discharge is no more than 12 inches in either a logbook or computer data system. All records must be maintained on site for a minimum of 5 years and make available to the Department upon request. [N.J.A.C 7:27-8.13(d)3]	None
24	For GDF constructed after November 9, 2006, the transfer of gasoline to the Storage tank shall be made through a Submerged fill pipes permanently affixed to the tank and with a discharge that is no more than 6 inches from the tank bottom. Submerged fill pipes not meeting the 6 inch specification of this section are allowed if the owner or operator demonstrates that the liquid level in the tank is always above the entire opening of the fill pipe. 40CFR Part 63.11117	None	The Permittee shall retain documentation and provide demonstration that the pipe discharge is no more than 6 inches in either a logbook or computer data system. All records must be maintained on site for a minimum of 5 years and make available to the Department upon request. [N.J.A.C 7:27-8.13(d)3]	None

Ref#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
25	For GDF with a monthly throughput greater than or equal to 100,000 gallons of gasoline, all vapor connections and lines on the storage tank shall be equipped with closures that seal upon disconnect. 40CFR Part 63.11118	None	None	None
26	For GDF with a monthly throughput greater than or equal to 100,000 gallons of gasoline, the vapor line from the gasoline storage tank to the gasoline cargo tank shall be vapor-tight. 40CFR Part 63.11118	None	None	None
27	For GDF with a monthly throughput greater than or equal to 100,000 gallons of gasoline, the vapor recovery and product adaptors, and the method of connection with the delivery elbow, shall be designed so as to prevent the over-tightening or loosening of fittings during normal delivery operations. 40CFR Part 63.11118	None	None	None
28	For GDF with a monthly throughput greater than or equal to 100,000 gallons of gasoline, Liquid fill connections for all systems shall be equipped with vapor-tight caps. 40CFR Part 63.11118	None	None	
29	For GDF with a monthly throughput greater than or equal to 100,000 gallons of gasoline, Pressure/vacuum (PV) vent valves shall be installed on the storage tank vent pipes. The pressure specifications for PV vent valves shall 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, shall 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. 40CFR Part 63.11118	None	None	None
30	For GDF with a monthly throughput greater than or equal to 100,000 gallons of gasoline, must be equipped with a dual point (no coaxial) vapor balance system for GDF or tanks constructed after November 9, 2006, and reconstructed GDF. 40CFR Part 63.11118	None	None	None