

UST Compliance Presentation

Gasoline Transfer Operations N.J.A.C.7:27-16.3

New Jersey Department of
Environmental Protection
Air Quality Permitting Program
May 14, 2013

Overview

- Applicability N.J.A.C.7:27-8.2
 - Gasoline Transfer Operations (N.J.A.C.7:27-16.3)
 - MACT - Maximum Achievable Control Technology (Federal Rule) (40 CFR 63.11110 Subpart CCCCCC)
 - Permitting Options
 1. General Permit
 - GP-004A
 2. Preconstruction Permits (PCP)
 - How do I obtain a General Permit or PCP?
 - Questions
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Applicability

Based on N.J.A.C. 7:27-8.2 (c), the following sources requires an air permit;

- stationary storage tanks with a capacity of 2,000 gallons or greater and having a vapor pressure of 0.02 PSIA (N.J.A.C. 7:27-8.2(c) 9)
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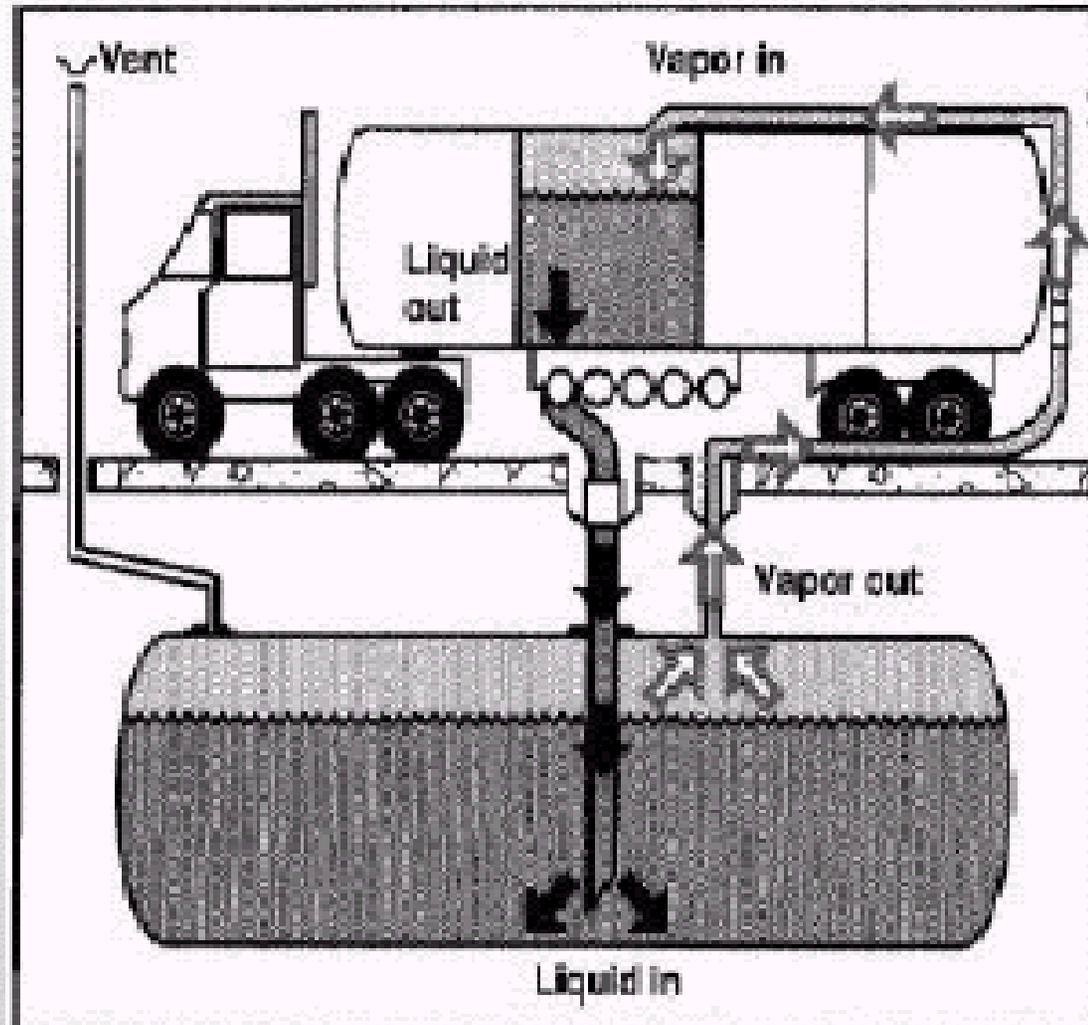
Requirements:

N.J.A.C.7:27-16.3 for Gasoline Transfer Operations

- Stage I Vapor Recovery System for the transfer of gasoline into any stationary storage tank having a maximum capacity of 2,000 gallons ; and
 - Stage II Vapor Recovery System for the transfer of gasoline into any motor vehicle
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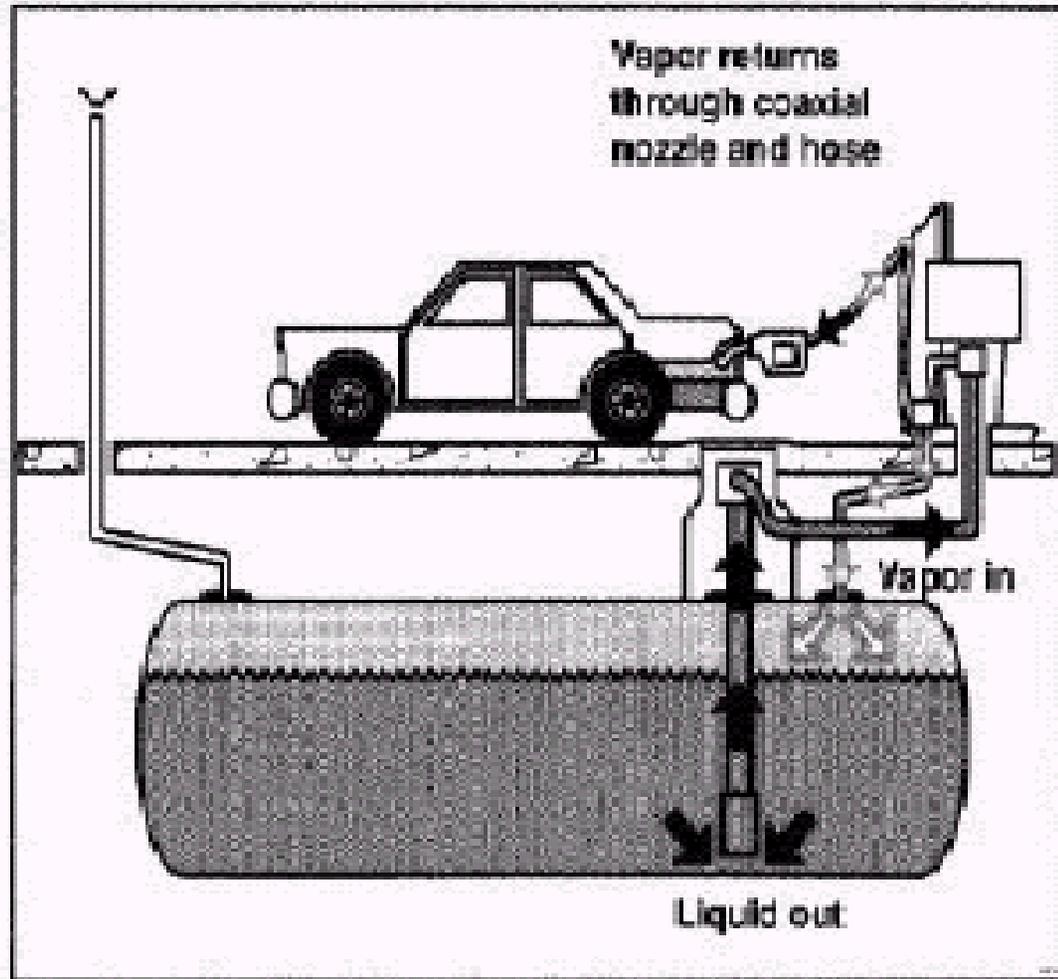
Stage I

Bulk transfer of gasoline from the delivery truck to the facility's storage tank.



Stage II

The transfer of gasoline from facility's storage tank to the motor vehicle gas tank.



Stage I and Stage II Vapor Recovery Systems

New Jersey requires the installation of Vapor Recovery Systems.

- Stage I Vapor Recovery System - 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
 - Includes a pressure/vacuum relief valve on each atmospheric vent
 - Stage II Vapor Recovery System - A vapor control system with **95 %** reduction in emissions
 - The system prevents overfilling and spillage.
 - The facility shall be certified by CARB, or to choose a system that is equivalent for this purpose.
 - equipped with a check valve in the dispenser nozzle
 - equipped with a splash guard
 - shall utilize a unihose system if it started to dispense after June 29, 2003
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When Stage II is not required;

- The facility is located at a marina and used exclusively for the refueling of marine vehicles;
 - The vehicle being refueled is an aircraft; or
 - Gasoline Dispensing Facility (GDF) has a monthly throughput of less than 10,000 gallons and commenced operation on or before June 29, 2003
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Requirements:

- **MACT- Maximum Achievable Control Technology 40 CFR 63.11110 Subpart CCCCCC for Gasoline Dispensing Facilities (GDF)**
 - MACT Requirements are based on the monthly gasoline throughput of each facility (See next table for requirements)
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Monthly Throughput	Maximum Achievable Control Technology Requirements (MACT)	Date of Compliance
< 10,000 gallons	<ul style="list-style-type: none"> • Minimize spills • Clean up spills expeditiously • Cover gasoline containers & storage tank fill pipes with gasketed seal • Minimize gasoline sent to open collection systems 	<p>Existing Facilities (on or before 11/9/2006) shall be in compliance since 1/10/2011 New (after 11/9/2006) or reconstructed comply when you start up</p>
>=10,000 gallons	<ul style="list-style-type: none"> • All of the above, plus: • Loading storage tank using submerged fill with discharge that is no more than the following from the bottom of tank: <ul style="list-style-type: none"> 12 inches for pipes (for existing facilities) 6 inches for pipes (for new facilities) 	<p>Same as above</p>
>= 100,000gallons	<ul style="list-style-type: none"> • All of the above, plus: • Operate Stage I installed prior to 1/10/2008, that meets an enforceable State rule which: <ul style="list-style-type: none"> • Achieves an emission reduction of at least 90%, or • Meeting the management practices specified below <ul style="list-style-type: none"> • Equip connections & lines with seal closures • Vapor tight line from storage tank to cargo tank • Designed to prevent over tight/loose fittings • Use vapor tight caps for liquid fill connections • Install pressure/vacuum vent valves on tank vent pipes • Dual-point (no coaxial) vapor balance system for GDF or tanks, constructed after November 9, 2006 and reconstructed GDF 	<p>Same as above</p>

Permitting Options for Air permit

Each facility shall apply for a General Permit or a Preconstruction Permit (PCP). A permit allows your facility to construct and/or to operate the significant equipment.

- *General Permit*
 - a pre-approved permit and certificate
 - Fee - \$410
 - Valid for 5 years
- PCP
 - 30-90 days technical review
 - Fee - \$1,755 Per first piece of equipment per initial permit application and \$410 Per each additional piece of equipment per initial permit application
 - Valid for 5 years

Note: If Facility doesn't not has a identification number, completing the following Form; Aims-099 Part A

<http://www.nj.gov/dep/aqpp/downloads/PARTA2009.pdf>

General Permit for Fuel Dispensing Facilities

- General Permit <http://www.nj.gov/dep/aqpp/gp.html>
 - GP-004A – Fuel Dispensing Facilities will be available on May 20, 2013 and will replace;
 - GP-004 (GDF equipped with Stage I and Stage II) and
 - GP-014 (GDF equipped with Stage I only)
 - Facilities won't be able to renew GP-004 and GP-014 after that date.
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GP-004A – Fuel Dispensing Facilities

- FD-4A-1: Marina gasoline storage tank(s) equipped with Stage I vapor control system
 - FD-4A-2: Airport gasoline storage tank(s) equipped with Stage I vapor control system
 - 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.
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How do I obtain a General Permit?

- The first step is to create a "My New Jersey Account" at: <http://www.njdeponline.com/>
 - Once you have created the account, you will be able to log into NJDEP Online Portal and complete a general permit online.
 - If you have questions on General permit online please call General Permit Help Desk at 609-633-2829
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How do I obtain a PCP permit?

- To apply for a Preconstruction permits, facility shall use Radius program. To download the program:

<http://www.nj.gov/dep/aqpp/radius.html>

- Complete your air permit application and submit it online.
 - If you have questions on Radius permit applications please contact Robert Darrow at (609) 633-8226
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Questions?



- **For PCP Permits**

- Mike Adhanom, Supervisor
 - Bureau of Preconstruction Permitting
 - (609) 633-8242 / mike.adhanom@dep.state.nj.us
- Mayra Reyes
 - Bureau of Preconstruction Permitting
 - (609) 984-6072 / mayra.reyes@dep.state.nj.us

- **For General Permits**

- General Permits Help Desk (609)-633-2829
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