

State of New Jersey
Department of Environmental Protection
Air Quality Permitting

General Permit (GP-016A)
for
Manufacturing and Materials Handling Equipment

This General Permit allows for the construction, installation, reconstruction, modification and operation of:

Uncontrolled Equipment:

- Single or multiple pieces of manufacturing and materials handling equipment each with a potential to emit (PTE) less than the reporting threshold for each air contaminant;

Controlled Equipment:

- Single or multiple pieces of manufacturing and materials handling equipment each with PTE emissions prior to the control device less than the reporting threshold for each air contaminant;
- OR
- Single or multiple pieces of manufacturing and materials handling equipment each with the controlled particulate emissions (emissions after a baghouse and/or cartridge filter) less than the reporting threshold. All other air contaminants must be less than the reporting threshold prior to a control device.

Each facility may possess only one GP-016A at any time. If a facility wants to add new equipment, replace or make changes to existing equipment that is already registered under GP-016A, then a new General Permit registration is required. This new General Permit registration will supersede the existing General Permit.

I. DEFINITIONS

The terms and phrases used in this document shall have the same meaning as in N.J.A.C. 7:27-8, and/or as listed below:

“Air Pollution Control Apparatus” means any device which prevents or controls the emission of any air contaminant directly or indirectly into the outdoor atmosphere.

“Department” means the New Jersey Department of Environmental Protection.

“Distillates of Air” means helium (He), nitrogen (N₂), oxygen (O₂), neon (Ne), argon (Ar), krypton (Kr), and xenon (Xe).

“Dry Cleaning Equipment” means equipment, located at a commercial establishment, used for cleaning textiles or garments, in which the cleaning agent is a chemical or petroleum solvent.

“Graphic Arts Operation” means the application of one or more surface coating formulations non-uniformly across a surface, using one or more printing units, together with any associated drying or curing areas. A single graphic arts operation ends after drying or curing and before other surface coating formulations are applied. For any web line, this term means an entire application system, including any associated drying ovens or areas between the supply roll and take-up roll or folder. This term does not include any surface coating operation.

“HAP” or “Hazardous Air Pollutant” means an air contaminant listed in or pursuant to 42 U.S.C. §7412(b).

“Incinerator” means any device, apparatus, equipment, or structure using combustion or pyrolysis for destroying, reducing or salvaging any material or substance, but does not include thermal or catalytic oxidizers used as control apparatus on manufacturing equipment.

“MACT” or “Maximum Achievable Control Technology” means the regulation establishing performance or emission standard promulgated under section 112 of the Clean Air Act (42 U.S.C.A. § 7412) at 40 CFR Part 63 (relating to National Emission Standards for Hazardous Air Pollutants for Source Categories).

“Manufacturing and Materials Handling Equipment” means

1. Equipment using pneumatic, bucket or belt conveying systems from which emissions occur; OR
2. Equipment in which the combined weight of all raw materials used exceeds 50 pounds in any one hour, in accordance with N.J.A.C. 7:27-8.2(c)19. In determining the weight of the raw materials used, the weight of the following shall

be excluded, in accordance with N.J.A.C. 7:27-8.2(c)19ii.

- Air;
- Water;
- Containers, as long as the container is not consumed as part of the operation; and
- Paper, metal or plastic that is twisted, bent or folded in the operation, as long as it does not cause visible emissions.

“NESHAP” means a National Emission Standard for a Hazardous Air Pollutant as promulgated under 40 CFR Part 61 or 40 CFR Part 63.

“NSPS” means Standards of Performance for New Stationary Sources as promulgated under 40 CFR 60, commonly referred to as New Source Performance Standards.

“Particulate Control Apparatus” means equipment designated to capture the particulates from manufacturing and materials handling equipment. This general permit is limited only to a baghouse and/or cartridge filter.

“Potential to Emit” or “PTE” means the maximum aggregate capacity of equipment to emit an air contaminant under its physical and operational design. Equipment-related fugitive emissions shall be included in the determination of potential to emit. For the purpose of this General Permit, physical and operational limitations on the capacity of equipment or the emission of an air contaminant, including any limitation on fugitive emissions as a result of any applicable requirement, control apparatus, and restrictions on hours of operation or on the type or amount of material processed, are not considered part of its design.

“Reporting Threshold” means the threshold for reporting emissions of air contaminants in accordance with [N.J.A.C. 7:27-8](#), and [N.J.A.C. 7:27-17](#), as applicable.

“Storage tank” means any tank, reservoir, or vessel, which is a container for liquids or gases, wherein:

1. No manufacturing process, or part thereof, other than filling or emptying takes place; and
2. The only treatment carried out is that necessary to prevent change from occurring in the physical condition or the chemical properties of the liquids or gases deposited into the container. Such treatment may include recirculating, agitating, maintaining the temperature of the stored liquids or gases, or replacing air in the vapor space above the stored liquids or gases with an inert gas in order to inhibit the occurrence of chemical reaction.

“Surface Cleaner” means a device to remove unwanted foreign matter from the surfaces of materials by using VOC or HAP solvents in liquid or vapor state.

“Surface Coating Operation” means the application of one or more surface coating formulations uniformly across a surface, using one or more coating applicators, together with any associated drying or curing areas. A single surface coating operation ends after drying or curing and before other surface coating formulations are applied. For any web coating line, this term means an entire coating application system, including any associated drying ovens or areas between the supply roll and take-up roll that is used to apply surface coating formulations onto a continuous strip or web. This term does not include any graphic arts operation.

II. **AUTHORITY**

This General Permit is issued under the authority of N.J.S.A. 26:2C-9.2. This General Permit shall allow for inspection and evaluation 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 March 20, 2017.

III. **APPLICABILITY**

This General Permit allows for the construction, installation, reconstruction, modification and operation of:

Uncontrolled Equipment:

- Single or multiple manufacturing and materials handling equipment each with a potential to emit (PTE) less than the reporting threshold for each air contaminant;

Controlled Equipment:

- Single or multiple manufacturing and materials handling equipment each with PTE emissions prior to the control device less than the reporting threshold for each air contaminant;
- OR
- Single or multiple manufacturing and materials handling equipment each with the controlled particulate emissions (emissions after a baghouse and/or cartridge filter) less than the reporting threshold. All other air contaminants must be less than the reporting threshold prior to a control device.

Each facility may possess only one GP-016A at any time. If a facility wants to add new equipment, replace or make changes to existing equipment that is already registered under GP-016A, then a new General Permit registration is required. This new General Permit registration will supersede the existing General Permit.

IV. EXCLUSIONS

This General Permit shall not be used for the following equipment:

1. Any equipment for which another specific General Permit has been established pursuant to N.J.A.C. 7:27-8.8;
2. Any equipment subject to NSPS, MACT, or NESHAPS requirements;
3. Any combustion source burning any commercial or non-commercial fuel;
4. Any dry-cleaning equipment;
5. Any waste or water treatment equipment, in accordance with N.J.A.C. 7:27-8;
6. Any surface cleaner;
7. Any equipment that meets the definition of a graphic arts operation;
8. Any tank or vessel used in etching, pickling, plating, electroplating or anodizing;
9. Any transfer operation involving gasoline or other VOCs;
10. Any tanks, reservoirs, containers and bins which have a capacity in excess of 2,000 cubic feet and which are used for the storage of solid particles;
11. Any equipment that meets the definition of a surface coating operation;
12. Any incinerator;
13. Any equipment used for the purpose of venting a closed or operating dump, sanitary landfill, hazardous waste landfill, or other solid waste facility including waste transfer stations;
14. Any welding equipment;
15. Any site remediation activity;

16. Any storage tank which have a capacity in excess of 10,000 gallons and which are used for the storage of liquids, except water or distillates of air; and
17. Any storage tank which have a capacity of 2,000 gallons or greater and which are used for the storage of a VOC or mixture of VOCs having a vapor pressure or sum of partial pressures of 0.02 pounds per square inch absolute (1.0 millimeters of mercury) or greater at standard conditions.

V. EQUIPMENT / CONTROL SPECIFICATIONS

- Upon request of the Department, the Permittee shall have available emission calculations records or any other documentation showing that the maximum potential emissions for each air contaminant from each piece of equipment is below the reporting threshold.
- The Permittee shall maintain records of the manufacturer specifications for each equipment, if available.
- The particulate baghouse or cartridge filter shall be operated and maintained in accordance with the manufacturer's specifications and recommendations.

VI. POTENTIAL TO EMIT

The Potential to Emit (PTE) for equipment permitted under this General Permit shall be less than the reporting thresholds in accordance with [N.J.A.C. 7:27-8](#), and [N.J.A.C. 7:27-17](#), as applicable.

VII. SUBMITTAL / CONTACT INFORMATION

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

1. Air Compliance and Enforcement at:
<http://www.nj.gov/dep/enforcement/air.html>
2. Bureau of Stationary Sources at:
<http://www.nj.gov/dep/aqpp/>
3. Small Business Assistance Program at:
<http://www.nj.gov/dep/aqes/sbap/index.html>

VIII. COMPLIANCE PLAN

The Equipment covered by this General Permit is subject to the applicable requirements listed on the following page.

COMPLIANCE PLAN: Manufacturing and Materials Handling Equipment

Ref. #	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	<p>All conditions contained in the document “General Procedures for General Permits” posted at the web page address, http://www.nj.gov/dep/aqpp/genproc.htm in addition to this Compliance Plan, shall also be subject to enforcement.</p> <p>[N.J.A.C.7:27-8.13(a)]</p>	None.	None.	None.
2	<p>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.</p> <p>[N.J.A.C. 7:27-5]</p>	None.	None.	<p>Any operation of the equipment which may cause a release of air contaminants in a quantity or concentration which poses a potential threat to public health, welfare, or the environment or which might reasonably result in citizen complaints shall be reported by the Permittee as required by the Air Pollution Control Act. Such notification shall be made immediately by calling the Environmental Action Hotline at (877) 927-6337.</p> <p>[N.J.S.A. 26:2C-19(e)]</p>
3	<p>The permittee shall ensure all pieces of manufacturing and materials handling equipment included in this General Permit are easily identifiable by clear and conspicuous labeling.</p> <p>[N.J.A.C. 7:27-8.13(a)]</p>	None.	None.	None.
4	<p>No Visible Emissions, exclusive of condensed water vapor, except for no more than 3 minutes in any consecutive 30-minute period.</p> <p>[N.J.A.C 7:27-8.13(a)].</p>	None.	None.	None.

Ref. #	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
5	<p>Maximum No. of Billable Compliance Inspections <= 4 inspections. The equipment covered by this permit will be subject to inspection fees for the maximum periodic compliance inspections (as defined in N.J.A.C.7:27-8.1) over the life of the Certificate, after it receives final approval for a five year duration. The Permittee will be invoiced for a service fee per inspection pursuant to N.J.A.C.7:27-8.6 after the periodic compliance inspection is conducted. [N.J.A.C.7:27-8.13(e)]</p>	None.	None.	None.
6	<p>The permittee shall maintain a list of all types of raw material used in the production process. [N.J.A.C. 7:27-8.13(a)]</p>	None.	<p>The permittee shall keep records of raw materials used in the production process. Records are to be maintained on-site and be made readily available upon request by the Department. [N.J.A.C 7:27-8.13(d)].</p>	None.
7	<p>Uncontrolled Equipment: The emissions for each air contaminant from each piece of equipment, shall be less than the reporting thresholds in accordance with N.J.A.C. 7:27-8, and N.J.A.C. 7:27-17, as applicable. [N.J.A.C. 7:27-8.13(h)]</p>	None.	None.	<p>Upon request by the Department, the Permittee shall submit documentation that all emissions are less than the reporting thresholds in accordance with N.J.A.C. 7:27-8, and N.J.A.C. 7:27-17, as applicable. [N.J.A.C. 7:27-8.13]</p>
8	<p>Controlled Equipment: is subject to the requirements from Item No. 9 through Item No. 14. [N.J.A.C. 7:27-8.13(a)]</p>	None.	None.	None.

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
9	<p>The control device shall be operated and maintained in accordance with the manufacturer's specifications and instructions.</p> <p>[N.J.A.C.7:27-8.13(a)]</p>	None.	None.	None.
10	<p>All components connected or attached to, or serving the equipment or control apparatus shall function properly and shall be used in accordance with all conditions and provisions of this general permit.</p> <p>[N.J.A.C. 7:27-8.3(e)]</p>	None.	None.	None.
11	<p>For any control device with the exception of a Baghouse and/or Cartridge filter, the emissions for each air contaminant from each piece of equipment prior to the control device, shall be less than the reporting thresholds in accordance with N.J.A.C. 7:27-8, and N.J.A.C. 7:27-17, as applicable.</p> <p>[N.J.A.C. 7:27-8.13(h)]</p>	None.	None.	<p>Upon request by the Department, the Permittee shall submit documentation that all emissions as specified in the Applicable Requirement are less than the reporting thresholds in accordance with N.J.A.C. 7:27-8, and N.J.A.C. 7:27-17, as applicable.</p> <p>[N.J.A.C. 7:27-8.13]</p>

Ref. #	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
12	<p>If control device is a baghouse and/or cartridge filter, the particulate emissions from each piece of equipment after a baghouse and/or cartridge filter, shall be less than the reporting thresholds in accordance with N.J.A.C. 7:27-8, and N.J.A.C. 7:27-17, as applicable.</p> <p>Air contaminant other than particulates, prior to the baghouse and/or cartridge filter shall be less than the reporting thresholds per each piece of equipment.</p> <p>[N.J.A.C. 7:27-8.13(h)]</p>	None.	None.	<p>Upon request by the Department, the Permittee shall submit documentation that all emissions as specified in the Applicable Requirement are less than the reporting thresholds in accordance with N.J.A.C. 7:27-8, and N.J.A.C. 7:27-17, as applicable.</p> <p>[N.J.A.C. 7:27-8.13]</p>
13	<p>If the control device is a baghouse and/or cartridge filter, the owner or operator shall inspect and maintain the particulate control device on a schedule that maintains the designed particulate control efficiency as specified by the manufacturer. The particulate control device shall be operated and maintained in accordance with the manufacturer's recommendations.</p> <p>[N.J.A.C. 7:27-8.13(h)]</p>	None.	<p>Recordkeeping by manual logging of parameter or storing data in a computer data system upon occurrence of event. Record each inspection and maintenance event. Records are to be maintained on-site for five years and be made available to the Department upon request.</p> <p>[N.J.A.C. 7:27-8.13(d)]</p>	None.

Ref. #	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
14	<p>For Baghouse and/or Cartridge Filter Control Device with particulate emissions above the Reporting Threshold, <u>PRIOR</u> to the Control Device:</p> <p>The Minimum and Maximum Operating Pressure Drop across the baghouse and/or cartridge filter inches w.c from general permit application.</p> <p>[N.J.A.C. 7:27-8.13(h)]</p>	<p>Monitored by pressure drop instrument continuously. The permittee shall install, calibrate and maintain the monitor(s) in accordance with the manufacturer's specifications. The monitor(s) shall be ranged such that the allowable value is approximately mid-scale of the device.</p> <p>[N.J.A.C. 7:27-8.13(d)]</p>	<p>Recordkeeping by manual logging of parameter or storing data in a computer data system daily showing the pressure drop across the baghouse or cartridge filter. Records are to be maintained on-site for five years and be made available to the Department upon request.</p> <p>[N.J.A.C. 7:27-8.13(d)]</p>	None.