

*State of New Jersey*  
Department of Environmental Protection  
Air Quality Permitting

**General Permit (GP-021B)  
for  
Outdoor Fumigation Operations of  
Containerized Commodities**

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

**Fumigation Operations** at a single industrial complex, limited to outdoor containers for methyl bromide, phosphine, and/or sulfuryl fluoride for fumigation of various commodities.

No other type of fumigation activity is allowed. This General Permit allows fumigation to occur only at the facility where it is issued.

Each facility may possess only one GP-021B at any time. If a facility wants to add additional fumigation units, or make changes to existing GP-021B, 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:

**“Aeration”** means that a fumigant is being released from a container into the atmosphere.

**“Aeration Time”** means the total amount of time allotted to release the fumigant from the container after the fumigation has concluded.

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

**“Buffer Zone”** is an area maintained, extending outward in all directions from the enclosure (i.e., container), at a specified distance, during the Fumigation. Only persons supervising and performing Fumigation activities are permitted. All other people, including unaffiliated workers, must be excluded from this zone, except for people in transit.

**“Commodity”** means a product that can be bought and sold, including but not limited to agricultural products, produce, logs, vehicles, and clothing.

**“Container” for the purpose of this General Permit** means the fumigation chamber under a tarp in which fumigation occurs as a significant source operation (N.J.A.C. 7:27-8.2(c)22). Containers can be trailers, box trucks, rail cars, or cargo containers. “Container” does not include drums, boxes, private residences, commercial offices and buildings, or warehouses.

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

**“FIFRA”** means the Federal Insecticide, Fungicide, and Rodenticide Act, which is the Federal statute that governs the registration, distribution, sale, and use of pesticides in the United States.

**“Fumigation Management Plan” or “Fumigation Log Report”** means a site-specific plan including the safety plan and site plan, consulted prior to any fumigation activity and in agreement with the fumigant’s label.

**“Fumigation” or “Fumigation operation” for the purpose of this General Permit** means the use of a fumigant in a sealed, enclosed space to prevent, control, or eliminate pests in stored commodities by treating the commodity. This includes all activities related to the fumigation operation prior to the application of fumigant(s),

the fumigation period, and post fumigation activities related to the fumigation operation.

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

**“Label” or “labeling”** means the instructions and all supplemental documents provided on the EPA label of the fumigant. This includes the specimen label and applicator manual located on the canister of fumigant.

**“Mechanical aeration”** means the active emission of a fumigant from the container to the atmosphere by use of a blower capable of meeting the required stack exit velocity.

**“Methyl Bromide”** means the inorganic compound with chemical formula  $\text{CH}_3\text{Br}$  that is used in fumigation operations. The CAS number for this compound is 74-83-9.

**“Modify” or “Modification”** means any physical change in, or change in the method of operation of, existing equipment or control apparatus that increases the amount of actual emissions of any air contaminant emitted by that equipment or control apparatus or that results in the emission of any air contaminant not previously emitted. This term shall not include normal repair and maintenance.

**“NJBPC”** means New Jersey Bureau of Pesticide Control.

**“Phosphine”** means the inorganic compound with chemical formula  $\text{PH}_3$  that is used in fumigation operations. The CAS number for this compound is 7803-51-2.

**“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.

**“Safety Plan”** means the set of instructions and guidelines to protect the applicators and any nearby person from harm due to the use of the fumigant. The safety plan should include all site-specific safety information provided in the fumigant label. The safety plan is a component of the Fumigation Management Plan or Fumigation Log Report.

**“Significant source operation” or “significant source”** means a source that is classified as a significant source pursuant to N.J.A.C. 7:27-8.2(c) and that is not exempted from being a significant source pursuant to N.J.A.C. 7:27-8.2(d) or (e).

**“Site Plan”** means a drawing reflecting the discharge direction, distance to property line from each potential emission point, respective stack heights and diameter, and rated fan capacity or flow rate. The site plan is a component of the Fumigation Management Plan.

**“Sulfuryl Fluoride”** means the inorganic compound with chemical formula  $\text{SO}_2\text{F}_2$  that is used in fumigation operations. The CAS number for this compound is 2699-79-8.

**“USDA”** means United States Department of Agriculture.

**“USA EPA”** means the Environmental Protection Agency of the United States federal government whose mission is to protect human and environmental health.

## 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 [future date].

## III. **APPLICABILITY**

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

**Fumigation Operations** at a single industrial complex, limited to outdoor containers for methyl bromide, phosphine, and/or sulfuryl fluoride for fumigation of various commodities.

No other type of fumigation activity is allowed. This General Permit allows fumigation to occur only at the facility where it is issued.

Each facility may possess only one GP-021B at any time. If a facility wants to add additional fumigation units, or make changes to existing GP-021B, 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:

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 indoors fumigation operations;
4. Any fumigation operations meeting SOTA reporting thresholds.
5. Any facility that possesses a GP-021A for Indoors Fumigation Operations of Cocoa Bean Products. No facility with an active GP-021B shall apply for a GP-021A.

#### V. **EQUIPMENT (LOCATION) / CONTROL / OPERATION SPECIFICATIONS**

- All fumigations must be done following applicable guidelines issued by the United States Environmental Protection Agency (USEPA) - Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA) and United States Department of Agriculture (USDA), and New Jersey Bureau of Pesticide Control (NJBPC).
- Upon request of the Department, the Permittee shall have available a Fumigation Management Plan or Fumigation Log Report including the instructions on how to address all elements prior to any fumigation activity, as well as the safety plan and site plan, in accordance with the fumigant's label.
- The Permittee shall submit a Site plan at the time of registration showing the discharge direction, the horizontal distance to property line from each potential emission point, respective vertical distance of the stack heights and diameter, and rated fan capacity or flow rate according to the only two conditions/scenarios established in the compliance plan and listed in Table A.

**Table A**

<b>Scenario</b>	<b>Stack Height (ft)</b>	<b>Stack Diameter (in)</b>	<b>Minimum flow (ACFM)</b>
#1	Greater than or equal to 18 ft	18	3,500
#2	Greater than or equal to 18 ft	22	9,200

- The Methyl Bromide usage shall not exceed 14 pounds (3.5 pounds per hour aerated for a minimum of 4 hours); and 1,600 pounds per year. The Permittee shall maintain calculations and recordkeeping as it is required in the compliance plan.

- The Phosphine usage shall not exceed 16.32 pounds per day; and 80 pounds per year. The Permittee shall maintain calculations and recordkeeping as it is required in the compliance plan.
- The Sulfuryl Fluoride usage shall not exceed 984 pounds per day; and 9,000 pounds per year. The Permittee shall maintain calculations and recordkeeping as it is required in the compliance plan.
- The Permittee shall maintain records of the manufacturer's specifications for each piece of equipment, if available.
- If there is any control device, this shall be operated and maintained in accordance with the manufacturer's specifications and recommendations.

## VI. POTENTIAL TO EMIT

The Potential to Emit (PTE) for all fumigation operations covered under this General Permit shall be **below than or equal to**:

Fumigant	Pounds per Hour	Pounds per Day	Pounds per Year (Tons per Year)
Methyl Bromide	14 lbs (3.5 lb/hr aerated for a minimum of 4 hours)		1,600 (0.80)
Phosphine		16.32	80 (0.04)
Sulfuryl Fluoride		984	9,000 (4.5)

## 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: Outdoor Fumigation Operations of Containerized Commodities**

Ref. #	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	<p>In addition to this Compliance Plan, all conditions contained in the document “General Procedures for General Permits” posted on the web page <a href="https://dep.nj.gov/boss/general-permits/gp-minor/#how-to-obtain-a-general-permit">https://dep.nj.gov/boss/general-permits/gp-minor/#how-to-obtain-a-general-permit</a> are enforceable.</p> <p>[N.J.A.C.7:27-8.13(a)]</p>	None.	None.	None.
2	<p>The Permittee shall not operate any fumigation activity in a manner which will cause visible emissions, exclusive of visible condensed water vapor, except for a period of 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.	<p>Notify by phone: Upon occurrence of event.</p> <p>If visible emissions are observed, refer to operator manual for corrective action. If corrective action fails to correct visible emissions within 24 hours of observation, the Permittee shall immediately report the incident to the Department by calling the Environmental Action Hotline at (877) 927- 6337.</p> <p>[N.J.S.A. 26:2C-19(e)]</p>

**GP-021B - Outdoor Fumigation Operations of Containerized Commodities**  
**03-05-2024**

3	<p>This fumigation activity 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>Notify by phone: Upon occurrence of event.</p> <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 result in citizen complaints shall be reported by the Permittee as required by the Air Pollution Control Act. The Permittee shall immediately notify the Department of any non-compliance by calling the Environmental Action Hotline at (877) 927-6337.</p> <p>[N.J.S.A. 26:2C-19(e)]</p>
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**GP-021B - Outdoor Fumigation Operations of Containerized Commodities**  
**03-05-2024**

4	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. 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)]	None.	None.	None.
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**GP-021B - Outdoor Fumigation Operations of Containerized Commodities**  
**03-05-2024**

5	<p>Prepare and implement a site-specific Fumigation Management Plan (FMP) or a Fumigation Log Report (FLR) preceding a treatment for each location where container fumigations are to be conducted. Both should include, at a minimum, the following information:</p> <ol style="list-style-type: none"><li>1. Fumigation company conducting the treatment, along with Pesticide Business License, address and other information.</li><li>2. Plot plan with the location(s) where fumigation will occur, with identification of where emission stacks will be located.</li><li>3. Safety criteria in place for each treatment location such as wind direction checks, equipment reviews and processes to determine treatment can occur.</li><li>4. Checklist of each aspect of the Compliance Plan.</li><li>5. Monitoring plan information such as equipment to be used, process for monitoring, and final clearance concentration to be reached.</li></ol> <p>[N.J.A.C. 7:27-8.13(a)]</p>	<p>Monitored by visual determination once initially prior to the release of fumigant.</p> <p>[N.J.A.C. 7:27-8.13(d)]</p>	<p>Printed copies of the fumigant's Applicators Manual, label, FMP or FLR must be maintained and available onsite during all fumigation related activities. These above documents must be made easily retrievable and available to the Department immediately upon request.</p> <p>[N.J.A.C. 7:27-8.13(d)]</p>	<p>None.</p>
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**GP-021B - Outdoor Fumigation Operations of Containerized Commodities**  
**03-05-2024**

6	<p>The Permittee shall ensure the minimum 10' buffer zone around the containers intended for fumigation and the emission stack. This buffer zone must be enforced from the time immediately prior to connection of the fumigant to the containers and emission stack until the fumigant concentration in the buffer zone, and the container(s) is verified at or below labeling standards as referenced in Condition #22.</p> <p>The outdoor fumigation area is easily identifiable by clear and conspicuous signs. The area shall be documented in the facility's Plot Plan.</p> <p>[N.J.A.C. 7:27-8.13(a)]</p>	<p>Monitored by visual determination prior to each fumigation event. If the area of fumigation will be moved, it shall be identified and recorded.</p> <p>[N.J.A.C. 7:27-8.13(d)]</p>	<p>Recording by manual logging of parameter or storing data in a computer data system per application.</p> <p>Record the areas of fumigation for each application.</p> <p>See Reference #17 Recordkeeping Requirement.</p> <p>[N.J.A.C. 7:27-8.13(d)]</p>	<p>None.</p>
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**GP-021B - Outdoor Fumigation Operations of Containerized Commodities**  
**03-05-2024**

7	<p>The container(s) shall be placarded with approved fumigation warning signs as required by the product labeling, federal and state regulations.</p> <p>[N.J.A.C. 7:27-8.13(a)]</p>	<p>Monitored by visual determination prior to each fumigation event.</p> <p>[N.J.A.C. 7:27-8.13(d)]</p>	None.	None.
8	<p>Designate emission point(s) at the facility on a plot plan. Provide the distance to the nearest property line relative to emission points. The facility shall direct all aeration streams through the designated emission point of that fumigation event.</p> <p>[N.J.A.C. 7:27-8.13(a)]</p>	None.	<p>Maintain the plot plan with the property line and emission point(s). Include distances in feet.</p> <p>[N.J.A.C. 7:27-8.13(d)]</p>	<p>The Permittee shall submit a plot plan drawing reflecting the distance to property line from the emission point. Label the shortest distance from the property line to each emission point. This drawing shall be attached along with the registration.</p> <p>[N.J.A.C. 7:27-8.13(d)]</p>
9	<p>The discharge for each fumigation and aeration event shall be vertical and through a single discharge stack with a Height = &gt; 18 ft above ground level and a Distance to Property Line = &gt; 20 ft. Mechanical Aeration shall assist the discharge once the treatment period has ended.</p> <p>[N.J.A.C. 7:27-8.13(a)]</p>	None.	<p>Maintain and have available onsite during all fumigation related activities the following ventilation specifications.</p> <ul style="list-style-type: none"> <li>i. Stack height (ft) above ground level.</li> <li>ii. Stack diameter (in).</li> <li>iii. Rated fan capacity or flow rate (cfm).</li> </ul> <p>[N.J.A.C. 7:27-8.13(d)]</p>	None.

**GP-021B - Outdoor Fumigation Operations of Containerized Commodities**  
**03-05-2024**

10	<p>Scenario #1: For a 18-inch stack diameter, Fan Volume Flow = &gt; 3,500 ACFM.</p> <p>Scenario#2: For an 22-inch stack diameter, Fan Volume Flow = &gt; 9,200 ACFM.</p> <p>[N.J.A.C. 7:27-8.13(h)]</p>	<p>None.</p>	<p>Recording by manual logging of parameter or storing data in a computer data system at least once at the start of mechanical aeration.</p> <p>Record fan volume flow rate at least once at the start of each mechanical aeration.</p> <p>Each fumigation shall have its own record. See Reference #17 Recordkeeping Requirement.</p> <p>[N.J.A.C. 7:27-8.13(d)]</p>	<p>None.</p>
11	<p>Monitoring equipment shall be maintained, operated, and calibrated in accordance with the manufacturer's recommendations.</p> <p>[N.J.A.C. 7:27-8.13(a)]</p>	<p>Monitored by visual determination prior to each fumigation event.</p> <p>[N.J.A.C. 7:27-8.13(d)]</p>	<p>Calibration records shall be maintained for review by the Department upon request.</p> <p>[N.J.A.C. 7:27-8.13(d)]</p>	<p>Calibrations shall be conducted at least once per year.</p> <p>[N.J.A.C. 7:27-8.13(d)]</p>

**GP-021B - Outdoor Fumigation Operations of Containerized Commodities**  
**03-05-2024**

12	<p>All tarps shall be made of a material such as vinyl, polyethylene plastic or coated nylon. Tarps shall be a minimum of 4-milimeters thick.</p> <p>Tarps are only approved for one (1) usage.</p> <p>Tarps shall be maintained in good condition, free of visible punctures. The tarps shall be inspected before each fumigation event to ensure effectiveness. If the tarp has been compromised, it shall be repaired to ensure functionality or be replaced.</p> <p>Tarps shall be allowed one repair event after placement over the containers. Repairs shall be performed according to the following:</p> <ol style="list-style-type: none"> <li>1. Use tape with a thickness greater or equal to tarp thickness.</li> <li>2. Tape material shall be consistent with approved tarp materials listed herein.</li> <li>3. Tape and spray adhesive shall be applied to both sides of the tarp to address all tears.</li> </ol> <p>[N.J.A.C. 7:27-8.13(a)]</p>	<p>Monitored by visual determination, per application.</p> <p>The tarp used for each fumigation event shall be inspected before each fumigation to assure tarp integrity and effectiveness is maintained.</p> <p>[N.J.A.C. 7:27-8.13(d)]</p>	<p>Recording by manual logging of parameter or storing data in a computer data system per application.</p> <p>For each fumigation event, the person inspecting the tarp should record tarp condition as part of the FMP/FLR checklist (See Ref #17).</p> <p>Purchase orders shall be made available for review immediately upon request to demonstrate the specifications of the tarp and repair material.</p> <p>[N.J.A.C. 7:27-8.13(d)]</p>	<p>Notify by phone: Upon occurrence of event.</p> <p>The Permittee shall immediately notify the Department of any non-compliance of the tarp condition by calling the Environmental Action Hotline at (877) 927-6337.</p> <p>[N.J.S.A. 26: 2C-19(e)]</p>
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**GP-021B - Outdoor Fumigation Operations of Containerized Commodities**  
**03-05-2024**

13	<p>The container fumigation shall be placed outdoor on a impervious surface such as asphalt, concrete, or tight wooden surface, not soil or gravel, or other porous surfaces. If you must fumigate on a porous surface, cover the surface with plastic tarpaulins, and covered with a fumigation tarp. The edge of the tarp on the ground must be sealed by sand snakes.</p> <p>Sand snakes must be inspected for integrity and repaired or replaced as needed.</p> <p>[N.J.A.C. 7:27-8.13(a)]</p>	<p>Monitored by visual determination, prior to each fumigant event.</p> <p>[N.J.A.C. 7:27-8.13(d)]</p>	<p>Recording by manual logging of parameter or storing data in a computer data system per application.</p> <p>For each fumigation event, records shall be kept of:</p> <ul style="list-style-type: none"> <li>Any seal malfunctions (if applicable)</li> <li>Any seal repairs (if applicable)</li> </ul> <p>[N.J.A.C. 7:27-8.13(d)]</p>	<p>Notify by phone: Upon occurrence of event.</p> <p>The Permittee shall immediately notify the Department of any non-compliance of the sealing measures by calling the Environmental Action Hotline at (877) 927-6337.</p> <p>[N.J.S.A. 26: 2C-19(e)]</p>
14	<p>The amount of Methyl Bromide used shall not exceed 1,600 pounds annually (0.80 tons/year).</p> <p>[N.J.A.C 7:27-8.13(h)]</p>	<p>Monitored by material balance over a 12-month rolling period, calculated monthly.</p> <p>[N.J.A.C. 7:27-8.13(d)]</p>	<p>Recording by manual logging of parameter or storing data in a computer data system monthly.</p> <p>Once a month the permittee shall confirm that the amount of Methyl Bromide recorded in each fumigation as required in Ref #17 does not exceed this annual limit.</p> <p>[N.J.A.C. 7:27-8.13(d)]</p>	<p>Submit a report: Annually by March 1 of each year for the preceding calendar year to NJDEP, Bureau of Stationary Sources at <a href="mailto:pcpnotices@dep.nj.gov">pcpnotices@dep.nj.gov</a>.</p> <p>The annual report shall include the total amount of fumigant emitted, the total number of fumigation events, any instance where additional fumigant was introduced, and any instance where the concentration reading inside the tarp exceeded 5 ppm after four hours of mechanical aeration.</p> <p>[N.J.A.C. 7:27-8.13(d)]</p>

**GP-021B - Outdoor Fumigation Operations of Containerized Commodities**  
**03-05-2024**

15	<p>The amount of Phosphine used shall not exceed 80 pounds annually (0.04 tons/year).</p> <p>[N.J.A.C 7:27-8.13(h)]</p>	<p>Monitored by material balance over a 12-month rolling period, calculated monthly.</p> <p>[N.J.A.C. 7:27-8.13(d)]</p>	<p>Recording by manual logging of parameter or storing data in a computer data system monthly.</p> <p>Once a month the permittee shall confirm that the amount of Phosphine recorded in each fumigation as required in Ref #17 does not exceed this annual limit.</p> <p>[N.J.A.C. 7:27-8.13(d)]</p>	<p>Submit a report: Annually.</p> <p>See Reference #14 Submittal Requirement for instructions.</p> <p>The annual report shall include the total amount of fumigant emitted, the total number of fumigation events, any instance where additional fumigant was introduced, and any instance where the concentration reading inside the tarp exceeded 0.3 ppm.</p> <p>[N.J.A.C. 7:27-8.13(d)]</p>
16	<p>The amount of Sulfuryl Fluoride used shall not exceed 9,000 pounds annually (4.5 tons/year).</p> <p>[N.J.A.C 7:27-8.13(h)]</p>	<p>Monitored by material balance over a 12-month rolling period, calculated monthly.</p> <p>[N.J.A.C. 7:27-8.13(d)]</p>	<p>Recording by manual logging of parameter or storing data in a computer data system monthly.</p> <p>Once a month the permittee shall confirm that the amount of Sulfuryl Fluoride recorded in each fumigation as required in Ref #17 does not exceed this annual limit.</p> <p>[N.J.A.C. 7:27-8.13(d)]</p>	<p>Submit a report: Annually.</p> <p>See Reference #14 Submittal Requirement for instructions.</p> <p>The annual report shall include the total amount of fumigant emitted, the total number of fumigation events, any instance where additional fumigant was introduced, and any instance where the concentration reading inside the tarp exceeded 1 ppm.</p> <p>[N.J.A.C. 7:27-8.13(d)]</p>



**GP-021B - Outdoor Fumigation Operations of Containerized Commodities**  
**03-05-2024**

17	<p>Methyl Bromide &lt;=14 lbs (3.5 lb/hr aerated for a minimum of 4 hours)</p> <p>[N.J.A.C. 7:27-8.13(h)]</p>	<p>Monitored by material balance per application over a 1-hour rolling period, calculated per application.</p> <p>[N.J.A.C. 7:27-8.13(d)]</p>	<p>Recording by manual logging of parameter or storing data in a computer data system daily. The Permittee must record the following:</p> <ol style="list-style-type: none"> <li>1. Date of fumigation initiation.</li> <li>2. Name of certified applicator and license number.</li> <li>3. Tarp Inspection Personnel Name</li> <li>4. Name of fumigant &amp; EPA Registration Number.</li> <li>5. Commodity</li> <li>6. Location of treatment area and Equipment NJID.</li> <li>7. Container type; cargo container, box trucks, rail cars truck trailers.</li> <li>8. Emission Point NJID.</li> <li>9. If operated in the respective fumigation, any Control Device NJID.</li> <li>10. Volume of commodity to be fumigated in cubic feet.</li> <li>11. Amount of fumigant introduced initially.</li> <li>12. If additional fumigant is introduced, it shall be recorded separately.</li> <li>13. Time fumigant is introduced.</li> <li>14. Time mechanical aeration begins.</li> <li>15. Time mechanical aeration ends.</li> <li>16. Flow rate of exhaust fan in ACFM</li> <li>17. Any fumigant concentration reading greater than labeling requirement at the end of aeration. (see Ref#21).</li> </ol> <p>[N.J.A.C. 7:27-8.13(d)]</p>	<p>None.</p>
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**GP-021B - Outdoor Fumigation Operations of Containerized Commodities**  
**03-05-2024**

18	Phosphine <= 16.32 lbs/day.  [N.J.A.C. 7:27-8.13(h)]	Monitored by material balance per application over a 24-hour rolling period, calculated per application.  [N.J.A.C. 7:27-8.13(d)]	Recording by manual logging of parameter or storing data in a computer data system daily.  See #17 Recordkeeping requirements.  [N.J.A.C. 7:27-8.13(d)]	None.
19	Sulfuryl fluoride <=984 lbs/day.  [N.J.A.C. 7:27-8.13(h)]	Monitored by material balance per application over a 24-hour rolling period, calculated per application.  [N.J.A.C. 7:27-8.13(d)]	Recording by manual logging of parameter or storing data in a computer data system daily.  See #17 Recordkeeping requirements.  [N.J.A.C. 7:27-8.13(d)]	None.
20	If fumigation is occurring in multiple containers (as defined in this general permit), and they are being aerated simultaneously, they must all vent to the same emissions stack which shall not exceed the emission limit in lbs/day.  [N.J.A.C. 7:27-8.13(a)]	Monitor the number of fumigations daily.  [N.J.A.C. 7:27-8.13(d)]	Record the number of fumigations daily.  Each fumigation shall have its own record. See Reference #17 Recordkeeping Requirement.  [N.J.A.C. 7:27-8.13(d)]	None.
21.	Methyl Bromide minimum total aeration time => 4 consecutive hours.  [N.J.A.C. 7:27-8.13(h)]	Monitored by hour/time monitor.  [N.J.A.C. 7:27-8.13(d)]	Record the total aeration time.  Each fumigation shall have its own record.  [N.J.A.C. 7:27-8.13(d)]	None.

**GP-021B - Outdoor Fumigation Operations of Containerized Commodities**  
**03-05-2024**

22	<p>The enclosure tarp shall not be removed until the enclosure's fumigant concentration is:</p> <ul style="list-style-type: none"> <li>• 5 parts per million (ppm) or below for two consecutive measurements using methyl bromide.</li> <li>• 0.3 ppm or below for two consecutive measurements using Phosphine.</li> <li>• 1 ppm or below for two consecutive measurements using Sulfuryl Fluoride.</li> </ul> <p>After the minimum required labeling aeration time, mechanical aeration shall stop and remain stopped until all required measurements are completed.</p> <p>If the concentration of fumigant is greater than the above allowable concentrations, mechanical aeration shall resume until subsequent enclosure fumigant measurements show a concentration(s) below the allowable concentration.</p> <p>[N.J.A.C. 7:27-8.13(a)]</p>	<p>Monitored by fumigant's label or USDA recommended instrumentation.</p> <p>Monitoring will consist of 2 consecutive measurements, conducted no less than 15 minutes apart, where mechanical aeration is ceased during the entire monitoring cycle.</p> <p>Monitoring will be performed in accordance with USDA recommended practices.</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/or per application.</p> <p>The location of fumigation, concentration inside the tarp, and times of the readings shall be recorded.</p> <p>If there is an exceedance above the allowable concentration value after mechanical aeration is complete, the permittee shall record the measured value, date and time, the fumigation event associated with the exceedance, and the actions taken to lower the concentration.</p> <p>[N.J.A.C. 7:27-8.13(d)]</p>	<p>Submit any exceedances in the annual report. See Reference #14, Submittal Requirement for instructions.</p> <p>[N.J.A.C. 7:27-8.13(d)]</p>
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