

Agenda

New Jersey Fumigation Rule

General Permits

Potential Methyl Bromide Substitute

Environmental Justice Considerations

New Jersey Fumigation Rule Provisions

Adopted February 2022 – 245 page adoption document

Clarified that Fumigation Activities are covered by Air Regulations

- Any source with over 0.1 pounds per hour of certain toxics
- List includes Sulfuryl Fluoride, Methyl Bromide, Phosphine

Emergency Provisions

- One time allowance
- Pre notification Requirement
- Minimum standards
- Post notification reporting

Added Sulfuryl Fluoride as a NJ HAP

Types of Permits Needed in NJ

Major Sources – 1

Minor Sources – Many!

Some Individual Permits

 General Permits Adopted and in the Works



General Permits - Fumigation

 Indoors Fumigation Operations of Cocoa Bean Products Adopted 11/2023

gp-021a.pdf (nj.gov)

 Outdoor Fumigation Operations of Containerized Commodities Proposed 4/15/2024

Public Comment Closed 5/14/2024

Microsoft Word - Proposed GP-021B 03-05-24 (nj.gov)

Cocoa Bean Fumigation General Permit

- Limited to Sulfuryl Fluoride
 - 300 Lb/day
 - 4.5 TPY
- Limited to fumigating Cocoa Bean Products
- Limiting Constraints
 - Stack Height (18 ft. or greater)
 - Flow Rate & Stack Diameter (300 ACFM & 4 in. OR 5,000 ACFM & 18 in.)
 - Minimum property Distance (10 ft.)
- Modeled to be negligible risk
- Volume of Enclosed Fumigation Area <= 200,000 ft^3



Cocoa Bean Fumigation General Permit (cont)

- Plot Plan
 - Commodity Fumigation Locations
 - Stack(s) Location with Distance to Property Line
- Sealed Building (Negative Pressure)
- Tarp Inspection Requirements (Repair)
- Robust Recordkeeping Requirements
- Minimum Aeration Time



Outdoor Container Fumigation General Permit

- Large Outdoor Containers limited to trailers, box trucks, rail cars, or cargo containers
- Limits Fumigant Usage
 - Sulfuryl Fluoride 984 lbs/day, 4.5 TPY (9,000 lbs/yr)
 - Methyl Bromide
 14 lbs/day (3.5 lbs/hr over 4 hours), 0.8 TPY (1,600 lbs/yr)
 - and/or Phosphine
 16.32 lbs/day, 0.04 TPY (80 lbs/yr)
- No restriction on what can be fumigated
- Limiting Constraints
 - Stack Height (18 ft. or greater)
 - Flow Rate & Stack Diameter (3,500 ACFM & 18 in. OR 9,200 ACFM & 22 in.)
 - Minimum property Distance (10 ft.)
- Modeled to be negligible risk
- No Volume Enclosure Limitation much smaller than indoor fumigation

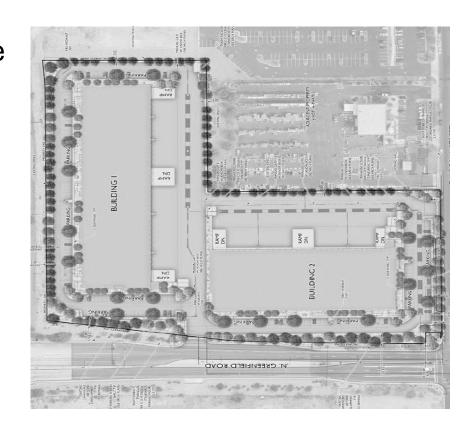






Outdoor Container Fumigation General Permit (cont)

- Plot Plan
 - Commodity Fumigation Locations
 - Stack(s) Location with Distance to Property Line
- Sealed Container
 - Many containers leak holes, gaps
 - Required secondary tarping to ensure capture
- Tarp Inspection Requirements (Repair)
- Robust Recordkeeping Requirements
- Minimum Aeration Time



Possible Replacement being Proposed for Methyl Bromide

 The process for alternate fumigation labels is challenging

- One facility releases close to 100 TPY of Methyl Bromide and up to 1200 pounds per hour
- Short and Long term risk is an issue
- Mentioned in Fumigation 101 this is the facility with the 70 ft stack and the fence line monitoring

Environmental

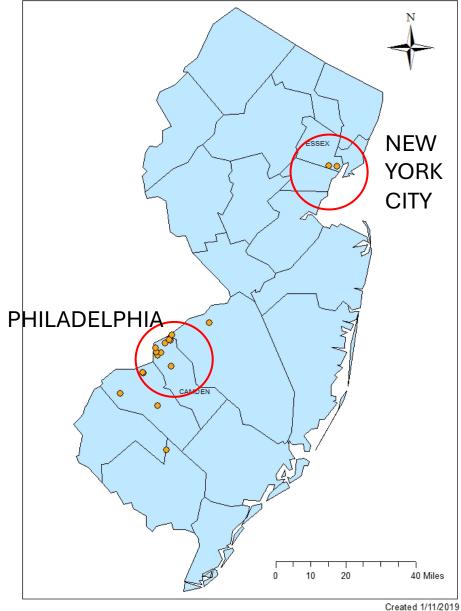
Justice

Considerations

- Where are these facilities located?
 - Anywhere is the answer.
- BUT, a higher density of these facilities are in and around ports which coincides with being in and around cities which coincides with being in and around environmental justice areas
- See next slide shared during our rule stakeholder process
 - These were the known facilities based on our enforcement information requests at the time.



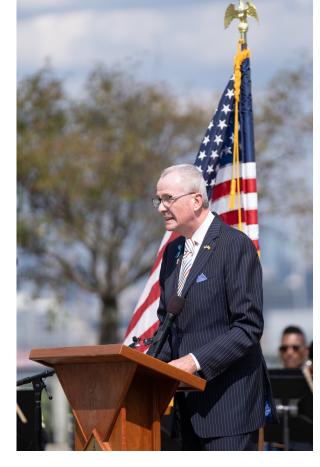
Location of Known Fumigation Locations in NJ











Thank you!





