



STATE OF NEW JERSEY
DEPARTMENT OF ENVIRONMENTAL PROTECTION

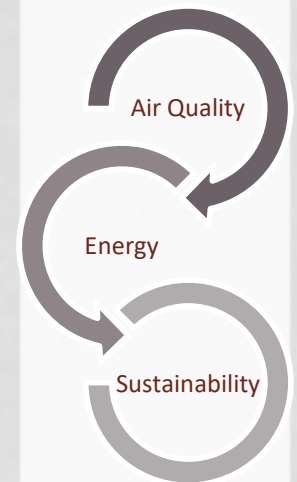


DIVISION OF AIR QUALITY

AIR QUALITY, ENERGY, AND SUSTAINABILITY

REGULATORY UPDATE

ACE ACADEMY
MAY 4, 2022



Presented by Kenneth Ratzman

RULES DISCUSSED TODAY

- Air Toxics Rule - FINAL
- NJPACT – Control and Prohibition of CO2 Emissions

AIR TOXICS OVERVIEW

- New listed air toxics – (Sulfuryl Fluoride, n-propyl Bromide, Hydrogen Sulfide)
- New substances to be included in Emission Statement
- Fumigation Clarification
- Rule Published April 4, 2022, Effective June 3, 2022

NEWLY ADDED NJ AIR TOXICS

- Sulfuryl Fluoride – added as a NJ Hazardous Air Pollutant with a reporting threshold of 90 lbs/yr, SOTA threshold of 5 Tons per Year (TPY)
- Hydrogen Sulfide – added as a NJ Hazardous Air Pollutant with a reporting threshold of 90 lbs/yr, SOTA threshold of 5 TPY
- 1-Bromopropane (aka n-propyl bromide, nPB) - proposed but not adopted as a NJ Hazardous Air Pollutant; because EPA adopted it as a FEDERAL Hazardous Air Pollutant during NJ rule making process

NEW EMISSION STATEMENT REPORTING SUBSTANCES

- No new facilities reporting – 2022 reporting year
- Only additional reporting for existing facilities
- New Substances

<u>Benzo(a)pyrene</u>	<u>50-32-8</u>
<u>Chlorine</u>	<u>7782-50-5</u>
<u>Cobalt metal and compounds</u>	<u>7440-48-4</u>
<u>Cyanide compounds (as hydrogen cyanide)</u>	-
<u>Ethyl benzene</u>	<u>100-41-4</u>
<u>Glycol ethers (as 2-methoxy ethanol)</u>	-
<u>Hydrogen fluoride</u>	<u>7664-39-3</u>
<u>Methyl tert-butyl ether</u>	<u>1634-04-4</u>
<u>Naphthalene</u>	<u>91-20-3</u>
<u>Phosphorous</u>	<u>7723-14-0</u>
<u>Styrene</u>	<u>100-42-5</u>
<u>Triethylamine</u>	<u>121-44-8</u>
<u>Xylene</u>	<u>1330-20-7</u>

FUMIGATION

- Methyl Bromide, Sulfuryl Fluoride and Phosphine added to Sub 17 as Group III toxics
- Requires a risk assessment for all covered fumigation operations 7:27-17.10
- Definitions of Commodity, Fumigation and Industrial Structure

FUMIGATION

- Fumigation operations was previously covered under N.J.A.C 7:27-8.2(c)19, now covered under N.J.A.C 7:27-8.2(c)22,
 - “Any fumigation of a commodity or industrial structure that has the potential to emit any fumigant or combination of fumigants at a rate greater than 0.1 pounds per hour (45.4 grams per hour), ...”
- Emergency Fumigation Provision N.J.A.C. 7:28-8.2(g)
 - One time allowance within 5 years
 - Notification and Reporting Requirements
 - Signage
 - Vertical Stack Required

PACT – STATIONARY SOURCES

NOT TAKING COMMENTS – information sharing only

3 Sectors

- Fossil Fuel-Fired Electric Generating Units (EGUs)
 - Heavy Fuel Oil Sales Ban
 - Commercial and Industrial Boilers
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- Proposed December 6, 2021, Correction on February 7, 2022, Comment Period Closed

FOSSIL FUEL-FIRED ELECTRIC GENERATING UNITS (EGUS)

Existing EGUs

- CO₂ emission limit, regardless of fuel, that increases in stringency over time

New base load EGUs

- CO₂ emission limit based on rate achieved by most efficient combined cycle

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New non-base load and modified EGUs

- case-by-case review

HEAVY FUEL SALES BAN

- Ban on the sale of No. 4 and 6 liquid heavy fuels
- Exception for marine vessels

COMMERCIAL AND INDUSTRIAL BOILERS

phase-down of small (<5 MMBtu) fossil-fuel combustion commercial and industrial boilers by

- imposing conditions for permit approval, such as technical infeasibility of a non-fossil fuel boiler
- requiring boiler fleet owners to submit a boiler fleet report

QUESTIONS? (TOXICS RULE)



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