



# Regulatory Controls

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Great Lakes Regional Collaboration  
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## Clean Air Act 1977-1990

- State Implementation Plans
- Enforcement and Permitting
- Ozone Protection
- Prevention of Significant Deterioration
  - NAAQS for NO<sub>2</sub>, CO, O<sub>3</sub>, PM-10, SO<sub>2</sub>, & Pb
- Visibility Protection
- Emission Standards for Mobil Sources
- Air Quality Monitoring and Modeling

## Clean Air Act 1990 to Now

- Hazardous Air Pollutants (HAP) & MACT
- National Emission Standards for HAPs
  - New Source
  - Stationary Sources
    - Major sources
      - > 10 tons per year of 1 HAP
      - 25 tons of >1 HAP
    - Area sources -- non-major, same industrial group, common control, potential for accidental release, contiguous
- Residual risk eight years after NESHAPs

## Clean Air Act “Toxic”

EPA Administrator may add HAP by rule, after

- Review of pollutant’s presence, route of exposure, threat of adverse human health effects or adverse environmental effects
  - Human Health Effects including but not limited to: substances which are known to be, or may reasonably be anticipated to be, carcinogenic, mutagenic, teratogenic, neurotoxic, which may cause reproductive dysfunction, or which are acutely or chronically toxic)
  - Adverse Environmental Effects through ambient concentrations, bioaccumulation, deposition, or otherwise

## Clean Water Act

- Wastewater Standards for Industry
- Scientific Water Quality Criteria
  - State Water Quality Standards for 64 toxic pollutants
  - All Contaminants in Surface Water
    - Aquatic Life, Human Health (fishable, swimmable, drinkable)
    - Numeric, Narrative (“free from toxicity”), Biological Criteria, Nutrient Criteria, Sediment Criteria
- Construction Grants/SRF for Sewage Treatment Plants
- Great Lakes Critical Programs Act of 1990
  - LaMPs/RAPs, GLI, schedule for States, monitoring

## Cleanup Enforcement Authority

- Comprehensive Environmental Response, Compensation, and Liability Act (Superfund)
  - “Hazardous Substance”
- Resource Conservation and Recovery Act
  - 500 specific hazardous wastes; wastes containing 40 toxic chemicals above regulatory threshold; ignitable, corrosive, or reactive wastes; and used oil
- Oil Pollution Act
  - Oil (animal, vegetable, mineral) spills

## ESA, EPCRA, & SDWA

- Endangered Species Act
  - Prohibits any action that results in the “taking” of an endangered or threatened (listed) species or adversely impacts habitat
- Emergency Planning and Community RTK Act
  - To protect public health, safety, and the environment from chemical hazards
  - “Extremely hazardous substance”
- Safe Drinking Water Act
  - Screen & test for chemicals & pesticides for ED effects

## Pesticide Programs

- FIFRA
  - Registering pesticide products for use based on a detailed assessment of the potential effects of a product on HH&E *when used according to label instructions*
  - Reevaluate older pesticides to ensure they meet more recent safety standards
  - Worker safety, applicator training & certification
- FFDCA pesticide tolerances for food & feed

## More Pesticide Programs

- Food Quality Protection Act
  - Tolerances for pesticide residues in food
  - Develop and implement an estrogenic effects screening program for all pesticides using validated test methods.
  - EPA may require testing of other chemicals that may have an effect that is cumulative to a pesticide effect; data may be obtained via FIFRA, TSCA, or an order.
- Federal Advisory Committee Act:
  - TRAC, FSAC, EDSTAC, PPDC, SAP/SAB, SFIREG

## Toxic Substances Control Act

- Authority to track (and ban) industrial chemicals currently produced or imported
- Regulations to gather health/safety and exposure information, require testing, & control exposure
  - Pre-Manufacture Notice (PMN)
  - Significant New Use Rule (SNUR)
  - Testing after reviewing volumes, release or exposure, or significant human exposure
  - Recordkeeping and reporting
- Any person who learns that a chemical presents a substantial risk of injury to HH&E shall inform the EPA Administrator

## OSHA, VSTA, PPA

- Occupational Safety and Health Act
  - Implemented by Department of Labor
  - Material Safety and Data Sheets required
- Virus-Serum-Toxin Act and Plant Protection Act
  - Implemented by Department of Agriculture
    - Under VSTA, the Center for Veterinary Biologics ensures that veterinary biologics are pure, safe, potent, and effective
    - Under PPA, the Animal and Plant Health Inspection Service has regulatory oversight over products of modern biotechnology

## National Environmental Protection Act

- Federal agencies perform environmental impact statements or find no significant impact for major federal actions
  - Actions include projects and programs
  - Use all practicable legal means to restore and enhance human environment
  - Avoid or minimize any possible adverse effects