Clean Air Act

Alabama’s Air Pollution Control Program

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Objectives

• Provide overview of Alabama’s Air Pollution Control Program

• Raise awareness of equipment and activities at DOC facilities that may be subject to regulation and/or permitting by ADEM’s Air Division
Overview of Air Pollution Control Program

- State Law
  - Alabama Environmental Management Act, Ala. Code §§22-22A-1 to 22-22A-16
  - Alabama Air Pollution Control Act, Ala. Code §§22-28-1 to 22-28-23

- Federal Law
  - Clean Air Act, as amended Nov. 15, 1990, Title 42, Chapter 85 of the United States Code
• Jurisdiction

  – ADEM’s Air Division has primary jurisdiction for the Alabama’s Air Pollution Control Program across entire state except:

    • Jefferson County
      – Jefferson County Department of Health (www.jcdh.org)

    • City of Huntsville
      – City of Huntsville Department of Natural Resources (www.hsocity.com/NatRes/)
Overview of Air Pollution Control Program

• Rules and Regulations
  – ADEM Administrative Code, Division 3
    • www.adem.state.al.us/Regulations/regulations.htm
  – Code of Federal Regulations, Title 40, Chapter I, Subchapter C (Air Programs), Parts 50-96
    • ecf.r.gpoaccess.gov
Overview of Air Pollution Control Program

- Clean Air Act
  - Comprehensive federal law that regulates air emissions from stationary and mobile sources
  - EPA sets limits on the quantity of air pollutants in ambient air
  - EPA sets limits on emissions of air pollutants coming from specific industry sectors, processes, or equipment
  - EPA has begun publishing regulations for smaller sources
Overview of Air Pollution Control Program

- EPA delegates some authorities to State and local air pollution agencies
  - Monitor air quality
  - Inspect and permit facilities
  - Enforce federal regulations
- States develop State Implementation Plans (SIP)
  - Outline how each state will control air pollution
  - EPA must approve SIP
• Permitting
  – Obligation to apply for a permit under Division 3 regulations extends to any owner/operator of an air emission source
  – Permitting determinations done on case-by-case basis
    • Some federal regulations require sources to obtain permits when their potential to emit is greater than a certain threshold
    • No minimum emission thresholds or source sector lists have been established exempting sources from obtaining a permit
  – Source should contact the Air Division for guidance on permitting prior to adding, replacing, or modifying any air emission source
Overview of Air Pollution Control Program

- Inspections
  - Frequency varies with type of source

- Elements
  - Evaluate equipment and control devices while in operation to detect emission problems
  - Identify unauthorized equipment additions, modifications, or replacements
  - Collect operating parameters
  - Review records of monitoring, fuel usage, and production, where applicable
  - Provide compliance assistance
• Fuel combustion sources
  • Types
    – Boilers/Water heaters
    – Generators (stationary internal combustion engines)
    – Does not include mobile sources (on-road or off-road engines)
  • Primary air pollutants
    – Particulate matter (PM)
    – Carbon Monoxide (CO)
    – Nitrogen Oxides (NOx)
    – Volatile Organic Compounds (VOC)
    – Sulfur Dioxide (SO₂)
    – Hazardous Air Pollutants (HAP)
• Fuel combustion sources (continued)
  – Types of Standards
    • Federal New Source Performance Standards (NSPS)
    • Federal National Emission Standards for Hazardous Air Pollutants (NESHAP)
    • State particulate, opacity, and SO₂ emission standards (boilers/water heaters only)
  – Emissions standards based upon manufacture dates, size, fuel, and in some cases, facility-wide emissions
  – Control devices typically only needed for larger sources
Equipment/Activities Subject to Regulation

• Activities
  – Types
    • Wood furniture manufacturing (Glues/Resin and Solvents)
    • Miscellaneous Surface Coating/Painting
    • Metal fabrication
    • Painting/coating motor vehicles and mobile equipment
    • Paint stripping (with Methylene Chloride)
    • Plating and Polishing (w/ materials containing Cd, Cr, Pb, Mn, or Ni)
    • Degreasing (methylene chloride, perchloroethylene, trichloroethylene, 1,1,1,-trichloroethane, carbon tetrachloride, and chloroform)
    • Gasoline dispensing into motor vehicles
Equipment/Activities Subject to Regulation

• Primary air pollutants
  – Volatile Organic Compounds
  – Hazardous Air Pollutants (both organics and metals)

• Federal National Emission Standards for Hazardous Air Pollutants (NESHAP)
  – Major Source (>10/25 TPY)
  – Area Source (<10/25 TPY)

• Regulations may require controls, work practice standards, use of alternative solvents, paints, or glues
If a regulatory/permitting determination has not been made for your equipment or activity, contact the Air Division:

- **Thomas Brown (334) 271-7901**
  - Boilers
- **Brandon Cranford (334) 271-7893**
  - Generators (IC Engines)
- **Chris Osborne (334) 271-7890**
  - Degreasing
  - Metal Fabrication, Plating, or Polishing Operations
- **Don Barron (334) 271-7884**
  - Painting/coating motor vehicles and mobile equipment
- **Kevin Fulmer (334) 270-5652**
  - Wood Furniture Manufacturing
  - Surface Coating Operations (other than motor vehicles/mobile equipment)
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