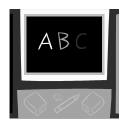


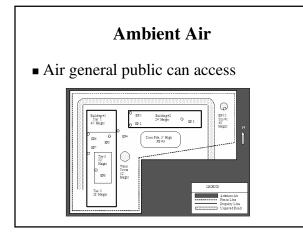
Overview

- Program Objectives
- Regulatory Background
- Regulated Pollutants
- What do we do & why?
- Where are we?
- How can we help you?

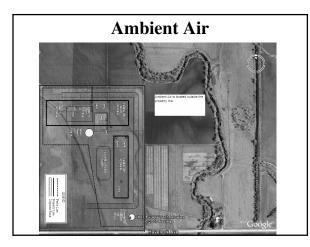


Program Objectives

- Protect public health, welfare, & environment
- Develop & enforce regulations
- Air quality
 - Status of atmosphere







Regulatory Background

- Congress enacts Clean Air Act (CAA) ■ First legislation – 1955

 - First CAA 1963 -
 - Amended 1990 (CAAA)
- EPA develops regulations based on CAAA
 - Ambient Air Quality Standards (NAAQS)
 - National Emission Standards for Hazardous Air Pollutants (NESHAPs)

Regulatory Background

- NAAQS
 - Primary health-basedSecondary public welfare



- "Criteria Pollutants"
- Attainment in compliance with NAAQS
- Non-attainment out of compliance
- NE currently in attainment for all pollutants
- Attainment status will affect level of control

Regulatory Background

NESHAPS

- Not "criteria pollutants"
- Hazardous air pollutants
 - Can cause or contribute to cancer or other serious health effects
- More on these later!



Regulatory Background

- Federal Regulations found in Code of Federal Regulations (CFR)
 - Title 40 Protection of Environment
 - Air Rules Parts 1-99
 - Broken into Subparts
- Federal regulations and other actions public noticed in Federal Register = promulgation

Regulatory Background

- Nebraska Environmental Protection Act (NEPA)
 - Legislative statue
 - Authority to develop regulations
- State air regulations
 - Can develop state standards and/or
 - Adopt EPA regulations
 - May need new legislative authority for some regulations
 - Can be more stringent than EPA

Regulatory Background

- Environmental Quality Council (EQC)
 - Must approve our rules
 - 18 members represent various industries & interests
 - Appointed by Governor with Legislature Consent
 - Four year term
 - Meet each calendar quarter
- EQC Adoption → AG review → Sec. Of State review
 → Governor review & approve
- Title 129 Nebraska Air Quality Regulations

Regulated Pollutants

- Particulate matter (PM)
 - PM <100 microns
 - PM₁₀
 - Annual NAAQS
 - PM_{2.5}
 - Annual & 24-hour NAAQS
 - Dust, smoke, fly ash, etc.



Regulated Pollutants

- Sulfur Dioxide SO₂, SO₃, SO_x
 - So_x = Combination of SO₂ & SO₃
 - SO₂ Annual, 24-hour, & 3-hour NAAQS
 - Combustion

■ Nitrogen Oxide – NO_x

- Annual NAAQS
- Combustion
- Contributes to ozone formation

Regulated Pollutants

- Carbon Monoxide CO
 - 8-hour & 1-hour NAAQS
 - Combustion



- Ozone O_3
 - 8-hour & 1-hour NAAQS
 - Secondary formation NO_x +
 - VOC + Sunlight

Regulated Pollutants

- Volatile Organic Compounds VOC
 - Contributes to ozone formation
 - Combustion, solvents, paints, chemicals, etc.
 - Some are hazardous air pollutants (HAP)
- Lead Pb
 - Metal HAP
 - Quarterly average NAAQS
 - Paints, fuel



Regulated Pollutants

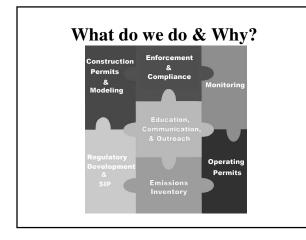
- Total Reduced Sulfur TRS
 - NE ambient air quality standard
 1-minute average & 30 minute rolling average
 - Hydrogen sulfide, methyl mercaptan, dimethyl sulfide, & dimethyl disulfide
 - Packing plant, tanning, sewage treatment, livestock waste, rendering, & oil & natural gas extraction



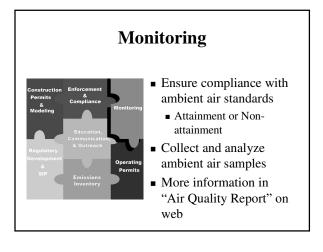
Regulated Pollutants

- Hazardous Air Pollutant HAPs
 - National Emission Standards for Hazardous Air Pollutants (NESHAPs)
 - 187 regulated HAPs
 - Combustion, solvents, chemicals, paints, etc.



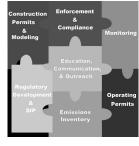


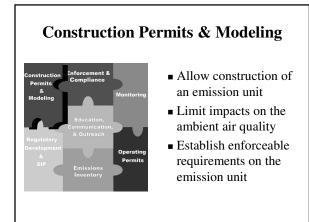




Regulatory Development

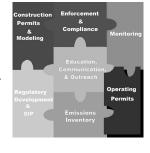
- Develop regulations
- Update federal regulations referenced in Title 129
- Submit implementation plans to EPA





Operating Permits

- "One stop shopping" permit
- Compliance determinations easier
- Public awareness



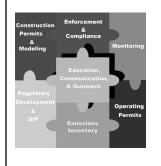
Compliance & Enforcement Ensure compliance with permits and regulations Inspections Review reports Observe stack tests Investigate compliantes

Emission Inventory

- Collect actual emissions data from industry annually
- Collect fees from major sources (Class I)
- Input data electronically & send to EPA



Communication, Education, & Outreach



- Assistance
- Guidance documents
- Training
- Workshops
- Federal emission standards
- Work plans
- More!

Where are we?

- NDEQ main office
 - Lincoln 12th & 'N' St. Atrium
- Field Offices with Air Inspectors
 - Norfolk, Holdrege, North Platte



Where are we?• Local Air Quality
ProgramsImage: Colspan="2">Image: Colspan="2"• Lincoln Lancaster CountyImage: Colspan="2">Image: Colspan="2"• City of OmahaImage: Colspan="2">Image: Colspan="2"• EPA Region VII OfficeImage: Colspan="2">Image: Colspan="2"• Kansas CityImage: Colspan="2">Image: Colspan="2"

