

The Clean Air Framework

- EPA sets National Ambient Air Quality Standards (NAAQS) for pollutants harmful to public health & environment
 - Ozone
 - Particulate matter
 - Lead
 - Carbon monoxide
 - Nitrogen Dioxide
 - Sulfur Dioxide
- EPA must review NAAQS every 5 years



Current NAAQS

Pollutant	Primary Standards	Secondary Standards
PM ₁₀ PM _{2.5} PM _{2.5}	150 µg/m ³ (24-hr) 15 µg/m ³ (annual) 35 µg/m ³ (24-hr)	Same as primary
Ozone	0.08 ppm (8-hr) (1997 - current) 0.075 ppm (8-hr) (2008)	Same as primary
Lead	1.5 µg/m ³ (quarterly) (1978 - current) 0.15 µg/m ³ (3 month average) (2008)	Same as primary
Carbon monoxide	9 ppm or 10 mg/m ³ (1-hr) 35 ppm or 40 mg/m ³ (8-hr)	None
Nitrogen dioxide	0.053 ppm or 100 ug/m ³ (annual)	Same as primary
Sulfur dioxide	0.03 ppm (annual) 0.14 ppm (24-hr)	0.5 ppm (3-hr)

Factors...

- Air quality data
- Emissions data (location of sources and contribution to ozone concentrations)
- Population density and degree of urbanization (including commercial development)
- Traffic and commuting patterns
- Growth rates and patterns
- Meteorology
- Geography/topography
- Jurisdictional boundaries
- Level of control of emission sources



Achieving Emission Reductions...

- National reduction measures
- Local emissions reductions
- GAEPD, SC DHEC, & EPA are providing technical assistance
- Public/private partnerships



How Do We Get it Done?

"We need each other!"

- **Pre-designation**
 - Voluntary reductions
 - Educating the public
 - Strategizing on best way to meet requirements

- **Post-designation**
 - **Attainment!**
 - Continue efforts to reduce emissions
 - Keep up efforts to educate the public
 - **Nonattainment**
 - Work in partnership to implement transportation conformity requirements
 - Support the state with State Implementation Plan efforts to improve air quality

What We Can Do to Help

- EPA
 - Provide technical assistance
 - Analyze data
 - Identification of potential emission reductions
 - Diesel Reduction Expertise
 - Southeast Diesel Collaborative
 - Grants
- State/Local Governments
 - Provide technical assistance
 - Coordination of effort
 - Plan development

Seize the Day!

- o Take action now to achieve actual emission reductions
- o The benefits are huge – *Cleaner, Healthier Air!!!*



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