

R4 PM & Ozone NAAQS & SIP Update

EPA Region 4

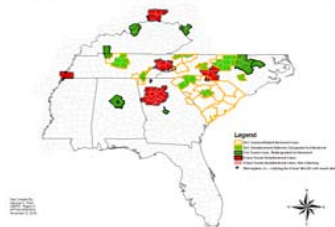


CSRA Air Quality Alliance Meeting April 1, 2009

R4 Ozone NAAQS & SIP Update

- 1997 Ozone NAAQS Status
- 2008 Ozone NAAQS Status
 - State Designation Recommendations
 - Designations

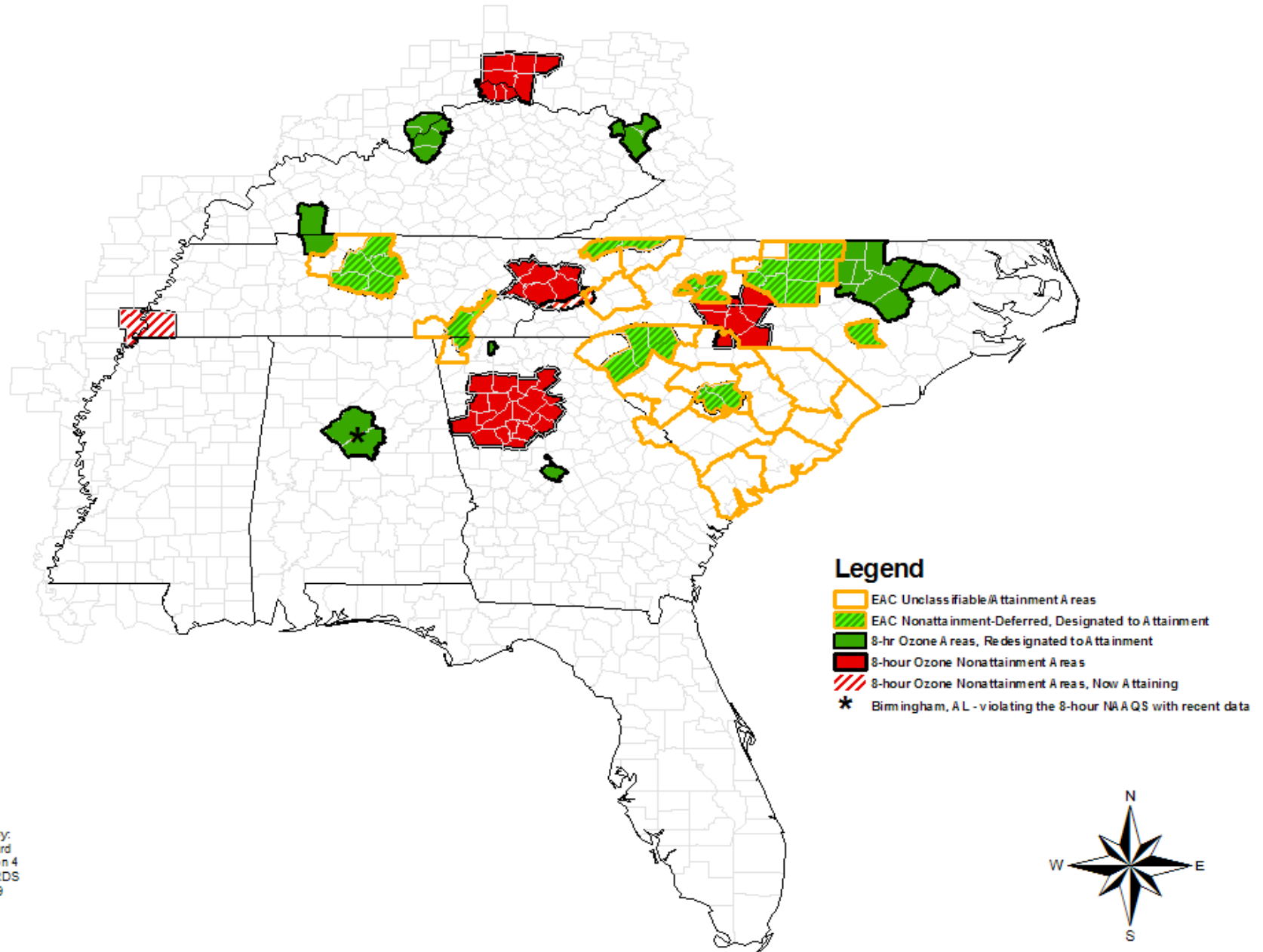




1997 Ozone NAAQS Status

- 6 remaining R4 ozone nonattainment areas
 - Memphis and GSMNP attaining – redesignation request submitted
 - Atlanta - Moderate SIP due
 - Charlotte - Withdrew Moderate SIP - EPA Finding of Failure to Submit – May be reclassified to serious
 - Knoxville and Cincinnati – will be reclassified to Subpart 2 due to Court decision for Phase 1 Vacature
- EAC areas attained

1997 8-hour Ozone NAAQS Nonattainment & EAC Area Status





2008 Ozone NAAQS Status

- **March 12, 2008** (published March 27, 2008)
 - 2 things changed
 - **Air Quality Index (AQI) changed**
 - **Primary & secondary standard**
 - Changed from 0.08 ppm to 0.075 ppm (3rd decimal place, no rounding)
- **Long-range Next Steps**
 - **Designations** (may include 06-08 or 07-09 data)
 - **Development of Attainment Plans** (Due 3 years after designation)





Timeline for Designations Process

Milestones

2008 Ozone NAAQS Dates

Final decision on level of NAAQS changed to 0.075

March 12, 2008

State/Tribal recommendations due

March 12, 2009

EPA response

No later than November 12, 2009
(120 days prior to final designations)

State & Tribes may provide additional comments

Prior to final designations

Final designations

No later than March 12, 2010*

* If the EPA Administrator determines that there is insufficient information to make final designations, then the date of final designations may be extended by up to one year but no later than March 12, 2011.

State Designation Recommendations

- State Recommendations were due March 12, 2009 – All Region 4 States submitted
- All 8 Region 4 States have counties with violating monitors
- All 8 Region 4 States recommended NA areas
- GA recommended 6 NA areas – All but 2 were previous NA or EAC areas
 - Muscogee County in the Columbus Area
 - Clarke County in Athens Area
- SC recommended 4 NA areas
 - Augusta – Aiken County (Partial)
 - York County (Partial)
 - Columbia – Lexington County (Partial) and Richland County (Partial)
 - Greenville – Greenville/Pickens Counties (Partial) and Spartanburg County (Partial)

Designation Process (cont.)

Factors considered for nonattainment boundaries:

- 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 rate and patterns
- Meteorology (weather/transport patterns)
- Geography/topography (mountain ranges or other air basin boundaries)
- Jurisdictional boundaries (e.g., counties, air districts, existing nonattainment areas, Reservations, metropolitan planning organizations (MPOs))
- Level of control of emission sources



Implementation of 2008 8-Hour Ozone NAAQS

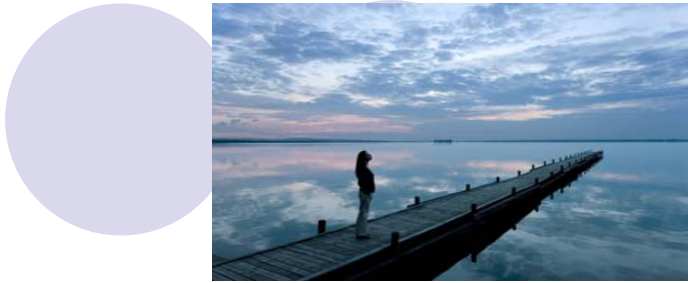
- Designation Guidance Memo – Published Dec 2008
 - Presumptive Boundary CSA/CBSA
- Implementation Rule
 - Draft under internal EPA review
 - Proposed Rule publication planned within next 6 months
 - 60 day public comment period
 - Final Rule will include EPA's response to comments



Implementation of 2008 8-Hour Ozone NAAQS cont.



- Implementation Rule
 - Classifications
 - Transition from the 1997 NAAQS to the 2008 NAAQS
 - Requirements for SIP elements
 - Attainment demonstration
 - RFP
 - RACT/RACM
 - NSR
 - Transportation and General Conformity
 - Compliance Dates for SIPs and attainment



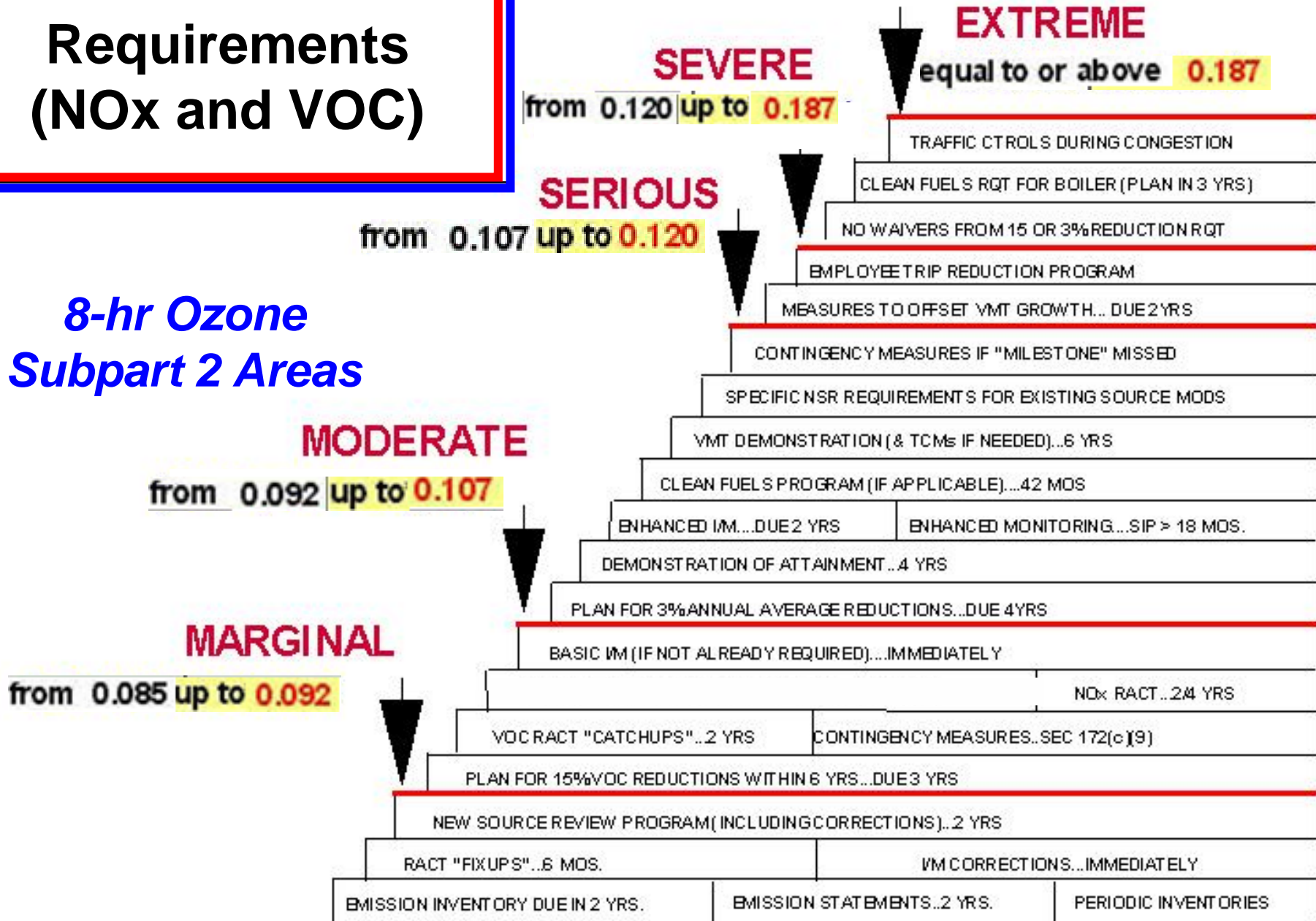
After Designations


- Nonattainment NSR applies upon effective date of designations (2010)
- Transportation conformity applies 1 year from effective date of designations (2011)
- Attainment SIPs due 2013
- Additional mandated controls
- Must attain by attainment date or bumped up to next higher classification (Attainment Dates 2013-2030)

Ozone Control Requirements (NOx and VOC)

Based on the 1997 Standard

8-hr Ozone Subpart 2 Areas

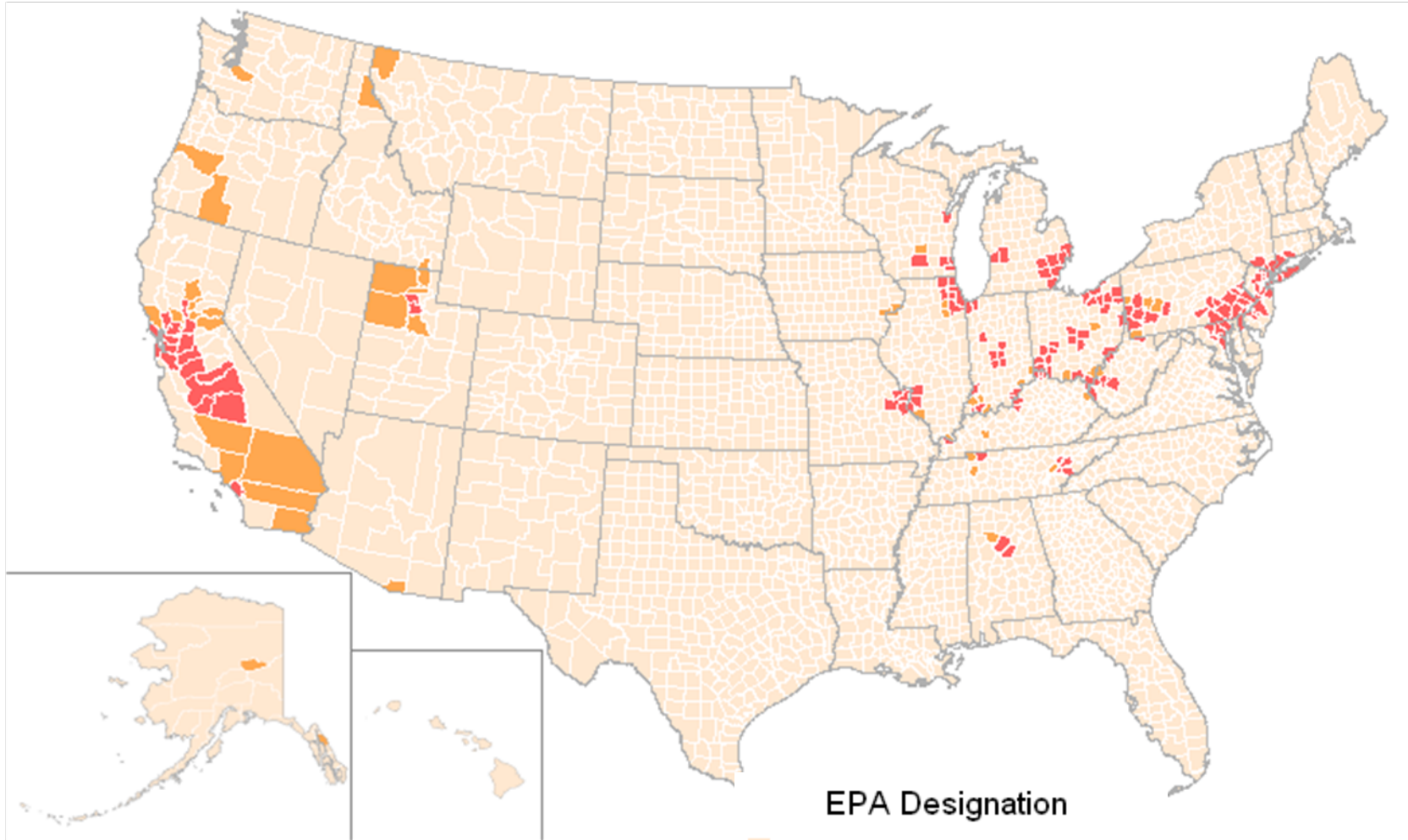




Areas Designated Nonattainment with the 2006 24-Hour PM_{2.5} NAAQS

- On December 22, 2008, EPA designated 58 areas as nonattainment with the 24-hour PM_{2.5} NAAQS.
- 7 areas in Region 4:
 - Birmingham, AL
 - Cincinnati-Hamilton, OH-KY-IN
 - Clarksville, TN-KY
 - Huntington-Ashland, WV-KY-OH
 - Knoxville-Sevierville-La Follette, TN
 - Louisville, KY-IN
 - Paducah-Mayfield, KY-IL
- All Region 4 areas except Birmingham may be attaining based on 2005-2008 data.

2006 24-hour PM_{2.5} Nonattainment Areas Designated Dec. 2008 (based on 2005-2007 data)



EPA Designation

- Attainment/Unclassifiable
- Nonattainment - Whole County
- Nonattainment - Partial County

Areas Violating the 2006 Annual PM_{2.5} NAAQS

- Letter dated February 4, 2009, from American Lung Association to EPA Administrator:
 - Claims that the change to the “spatial averaging component” of the annual standard triggered EPA’s duty to promulgate designations, even though the level (15 µg/m³) was unchanged.
 - Requests that seven areas be re-designated to nonattainment for the annual PM_{2.5} standard based on 2005-2007 data.
 - Five of the areas are in Region 4: Columbus, GA; Washington County, GA; Wilkinson County, GA; Augusta, GA; Greenville, SC. Also: Houston, TX and Fairmont, WV.
- EPA is reviewing the letter and the relevant data to determine how to respond.



PM Focus Areas

Region 4 has identified 8 “focus areas” that are designated as attainment for PM_{2.5} but that have recent monitoring data indicating annual design values greater than 15 µg/m³:

- Augusta/Aiken, GA-SC
- Columbus/Phenix City, GA-AL
- Washington County, GA
- Wilkinson County, GA
- Lexington, KY
- Charlotte, NC
- Greenville, SC
- Columbia, SC

Options:

- Work with area to return to attainment
- Issue a SIP Call
- Designate area as nonattainment

Thank you!

Questions?

Jane Spann, Groundlevel Ozone Expert
(404) 562-9029 - spann.jane@epa.gov

Joel Huey, PM Expert
404-562-9104 - huey.joel@epa.gov