

# 8-hour Ozone Nonattainment Designations and Implementation Rule Update

G. T. Helms
Office of Air Quality Planning and Standards
U. S. EPA

June 2004

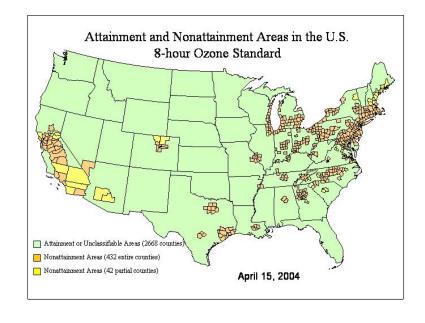
## Clean Air Rules of 2004

- ✓ 8-hour ozone designations
  - ✓ Basic (Subpart 1)
  - √ Classified (Subpart 2)
  - ✓ Effective June 15, 2004
- **✓ 33 Early Action Compact areas . . (**30 of which have a deferred nonattainment date)
- ✓ 8-hour Implementation Rule Phase I

#### Designations summary .....

#### 8-hour Nonattainment Areas

- 474 counties designated nonattainment
  - 432 whole counties
  - 42 partial counties
- Approximately 159 million people live in areas designated nonattainment for the 8-hour ozone standard



# Who's "nonattainment?" \_\_\_\_ Attainment and Nonattainment Areas in the U.S. 8-hour Ozone Standard Attainment or Unclassifiable Areas (2668 counties) Nonattainment Areas (432 entire counties) Nonattainment Areas (42 partial counties) April 15, 2004

#### April 15th, 2004 Nonattainment action

#### Category/Classification

(Attainment Date)

Category/Classification (Attainment Date)

SEVERE 17 (June 2021)

Los Angeles South Coast Air Basin, CA

SERIOUS (June 2013)

Riverside Co, (Coachella Valley), CA

Sacramento Metro, CA [n\*]

San Joaquin Valley, CA [n\*]

MODERATE (June 2010)

Baltimore, MD

Boston-Lawrence-Worcester (E. MA), MA

Boston-Manchester-Portsmouth (SE),NH

Cass Co. MI

Charlotte-Gastonia-Rock Hill, NC-SC

Chicago-Gary-Lake County, IL-IN

Cleveland-Akron-Lorain, OH

Dallas-Fort Worth, TX

Detroit-Ann Arbor, MI

Fredericksburg, VA

Greater Connecticut, CT

Houston-Galveston-Brazoria, TX

Jefferson Co, NY

Kent and Queen Anne's Cos. MD

La Porte, IN

MODERATE (June 2010)... continued

Lancaster, PA

Memphis, TN-AR

Milwaukee-Racine, WI

Muskegon, MI

New York-N. New Jersey-Long Island, NY-NJ-CT

Philadelphia-Wilmin-Atlantic Ci,PA-NJ-MD-DE

Poughkeepsie, NY

Providence (All RI), RI

Richmond-Petersburg, VA

Sheboygan, WI

Springfield (Western MA), MA

St Louis, MO-IL

Ventura Co. CA

Washington, DC-MD-VA

MARGINAL (June 2007)

Atlanta, GA

Baton Rouge, LA

Beaumont-Port Arthur, TX

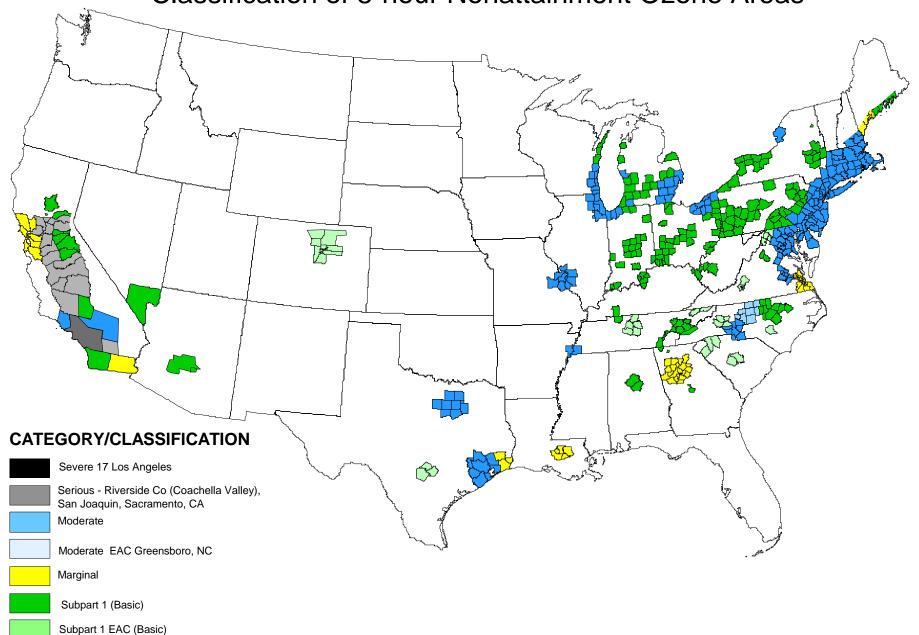
Imperial Co, CA

Norfolk-Virginia Beach-Newport News (HR), VA

Portland, ME

San Francisco Bay Area, CA

#### Classification of 8-hour Nonattainment Ozone Areas





# Status of 8-hour O<sub>3</sub> Implementation Rule

### Final rule to be issued in 2 phases:

#### Phase 1:

- Classifications, transition/anti-backsliding, revocation of 1-hour std., attainment dates, attainment date extensions, timing of emission reductions needed for attainment
- ➤ Signature on April 15 .... Publication April 30<sup>th</sup>, 2004

#### Phase 2:

- Remainder of rule elements (e.g., RACT, RFP, attainment demonstrations; 8-hr NSR)
- Planning for signature mid-summer (August?)

Comparison ... control requirements from Title I, Part D, Subparts 1 and 2 ...

# 8-hour O<sub>3</sub> implementation rule --- the subpart issue

#### Subpart 1

✓ Reasonably Available Control Technology (RACT), Reasonably Available Control Measures (RACM), Transportation Conformity, New Source Review (NSR), Reasonable Further Progress (RFP), attainment demonstration

#### Subpart 2

- ✓ In addition to Subpart 1 requirements:
  - Inspection/Maintenance (I/M) program, specified RFP (3%/yr), reformulated gas for some areas, specific NSR size thresholds and offset ratios, RACT for VOC and NOx sources, attainment demonstration except for marginal areas

### Revocation of the 1-hr standard

#### When EPA will remove the 1-hour standard?

#### Revocation of 1-hr std will occur ....

- 1 year following designations for the 8-hour NAAQS.
- Designed to ensure continued applicability of subpart 2 requirements and ensure continued air quality improvement, while shifting focus toward implementation of the 8-hour standard.
- Consistent with 1-year grace period for 8-hr O3 conformity.

### **Anti-Backsliding provisions ...**

Anti-Backsliding... means ensuring areas continue to implement measures in their 1-hour plans after 1-hour std revoked

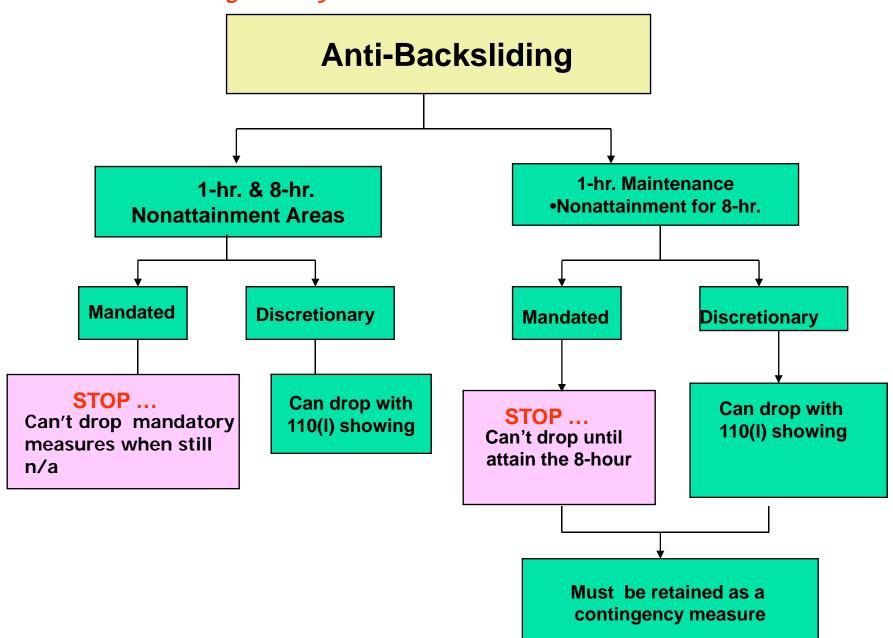
- CAA has several provisions that support limiting States' ability to drop mandated measures (see 68 FR 32819)
- Mandated measures (e.g., RFP, I/M) must remain in place until an area is redesignated to attainment for the 8-hour standard.
- Once redesignated as a maintenance area, mandated measures can be dropped with a section 110(I) showing of noninterference, but they must remain in the SIP as contingency measures.

## Anti-Backsliding ... continued



- NOx SIP Call requirements remain
- 1-hr standard will be revoked one year after the effective date of the 8-hr. designation (June 15, 2005)
- To ensure progress toward clean air, antibacksliding policy requires that 1-hr mandated controls continue to apply until the area meets the 8-hr standard

How anti-backsliding actually works in the 8-hr rule ....



# What's next for 8-hr implementation?



#### Phase 2:

- ✓ Remainder of rule elements (e.g., RACT, RFP, attainment demonstrations; 8-hr NSR)
- ✓ Planning for signature mid-summer (August?)



• Questions?



# Appendix

#### Converted Table 182--- for 8-hr Classifications

TABLE 2 TABLE 1 OF SUBPART 2 1-HOUR OZONE CLASSIFICATION TABLE					
		TRANSLATION	TO 8-HOUR DES	SIGN VALUES	_
Area class		CAA design value thresholds 1-hour ozone ppm	% above 1-hour ozone <u>NAAQS</u>	Translated 8-hour design value thresholds ppm ozone	Primary standard attainment date–years after enactment (1- hour std)**
Marginal	from	0.121	0.833	0.085*	3 years
	up to	0.138	15.000	0.092	
Moderate	from	0.138	15.000	0.092	6 years
	up to	0.160	33.333	0.107	
Serious	from	0.160	33.333	0.107	9 years
	up to	0.180	50.000	0.120	
Severe-15	from	0.180	50.000	0.120	15 years
	up to	0.190	58.333	0.127	
Severe-17	from	0.190	58.333	0.127	17 years
	up to	0.280	133.333	0.187	
Extreme	equal to or above	0.280	133.333	0.187	20 years

<sup>\*</sup> The table's lowest value reflects the lowest nonattaining value, viz., 0.085 ppm.

<sup>\*\*</sup>For 8-hr ozone standard, EPA proposing to interpret the maximum period for attainment starting from date of designation.

# Rule for separating areas between subparts 1 & 2

Approach: – Separate violating (>85PPB) 8-hour nonattainment areas based on whether their 1-hr design values are less than 0.121 ppm.

- Areas with 1-hr design values less than 0.121 ppm would be subject to Subpart 1 (attainment deadlines 5 or 10 years after designation)
- Areas with 1-hr design values equal to or greater than 0.121 ppm would be subject to Subpart 2 (attainment dates 2007 – 2021)
- Subpart 2 areas classified using 8-hour design values and "converted" classification table thresholds that are the same % above standard as Subpart 2's 1-hour values

## 8-hr O<sub>3</sub> Attainment Dates

"as expeditious as practicable but no later than" ...

 Subpart 1 Areas: no later than 5 years after effective date of designation or 10 years depending on severity and availability/feasibility of pollution control measures indicating more time is needed

Subpart 2 Areas: counting from June 2004 . . . .

marginal – 3 years 2007

moderate – 6 years 2010

serious – 9 years 2013

severe – 15 or 17 years 2019 or 2021

extreme – 20 years 2024