

EPA SIP-Related Update

April 13, 2011

U.S. EPA Region 6



What I'll cover

- Reconsideration of the 2008 Ozone Standards
- Clean Air Act 185 Fees
- Revised Primary Sulfur Dioxide Standard and Designations Guidance

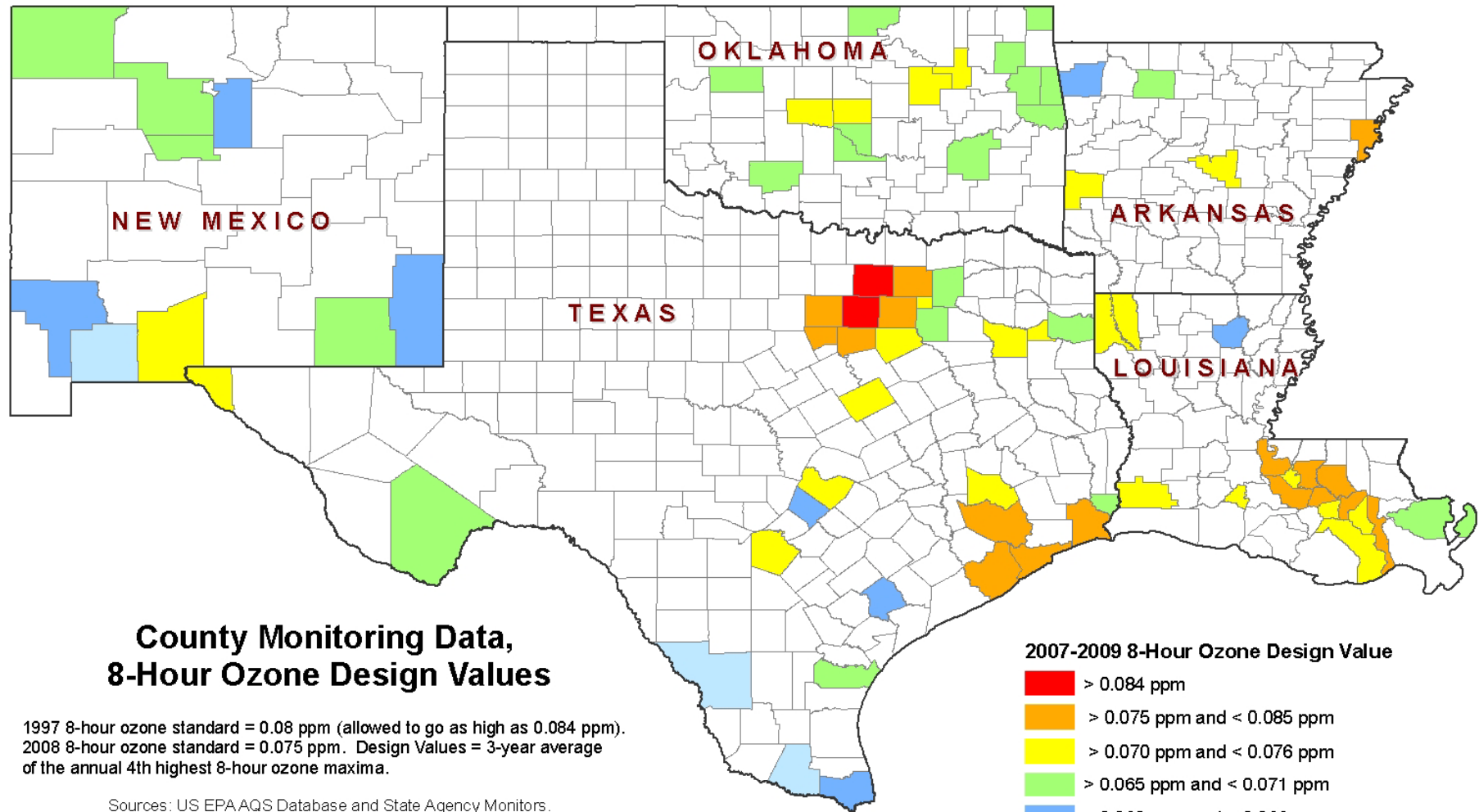


2008 8-Hour Ozone Standards

- March 2008, standards revised to 75 ppb
- 3-year average of the annual fourth highest value at any specific monitor must not exceed the standard
- Primary Standard and Secondary Standard set as the same



Region 6 Ground Level Ozone Concentrations





County Monitoring Data, 8-Hour Ozone Design Values

1997 8-hour ozone standard = 0.08 ppm (allowed to go as high as 0.084 ppm).
2008 8-hour ozone standard = 0.075 ppm. Design Values = 3-year average
of the annual 4th highest 8-hour ozone maxima.

Sources: US EPA AQS Database and State Agency Monitors.

2007-2009 8-Hour Ozone Design Value

- > 0.084 ppm
- > 0.075 ppm and < 0.085 ppm
- > 0.070 ppm and < 0.076 ppm
- > 0.065 ppm and < 0.071 ppm
- > 0.060 ppm and < 0.066 ppm
- < 0.061 ppm

 EPA Region 6
GIS Support Team
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20100414ML03




Reconsideration of the 2008 Standards

- September 2009: EPA to reconsider the standards
- EPA will defer ozone area designations until reconsideration is complete
- December 2010: EPA decides to ask Clean Air Science Advisory Committee (CASAC) for further interpretation of data used to make their recommendation
- Decision expected July 29, 2011



What's Being Reconsidered

- Primary standard: 60 to 70 ppb (CASAC recommendation)
- Unique secondary standard to protect plant growth during the growing season



Plan for Reconsidered Ozone Standards

Action	Date
Proposal on Standards	December 2009
Final Standards	July 29, 2011
Implementation Proposal	July 29, 2011
Final Designations and Classifications	2012/2013
State Implementation Plans Due	2015/2016



Implementation Proposal

- Classifications
- Dates for Revised SIPs
- Modeling and Attainment Demonstrations
- Controls for major sources of NO_x and VOC
- Emission offsets for new major sources or major source modification
- Conformity Process (General and Transportation)



Clean Air Act 185 Fees

- SIP: Emissions fee in severe and above ozone nonattainment areas that fail to attain the standard by its attainment date
- 1-hour ozone standard attainment dates of Nov. 2005 and Nov. 2007 for severe nonattainment areas
- Mar. 2008: EPA guidance on emissions baseline
- Jan. 2010: EPA guidance on fee programs



January 5, 2010 Guidance

- 1-hour Standard fee program no longer required if EPA determines area is attaining the 1-hour standard or the 1997 8-hour ozone standard, based on permanent and enforceable emissions reductions
- Rulemaking by EPA required
- First termination determination proposal: March 29, 2011 Federal Register (Baton Rouge area)



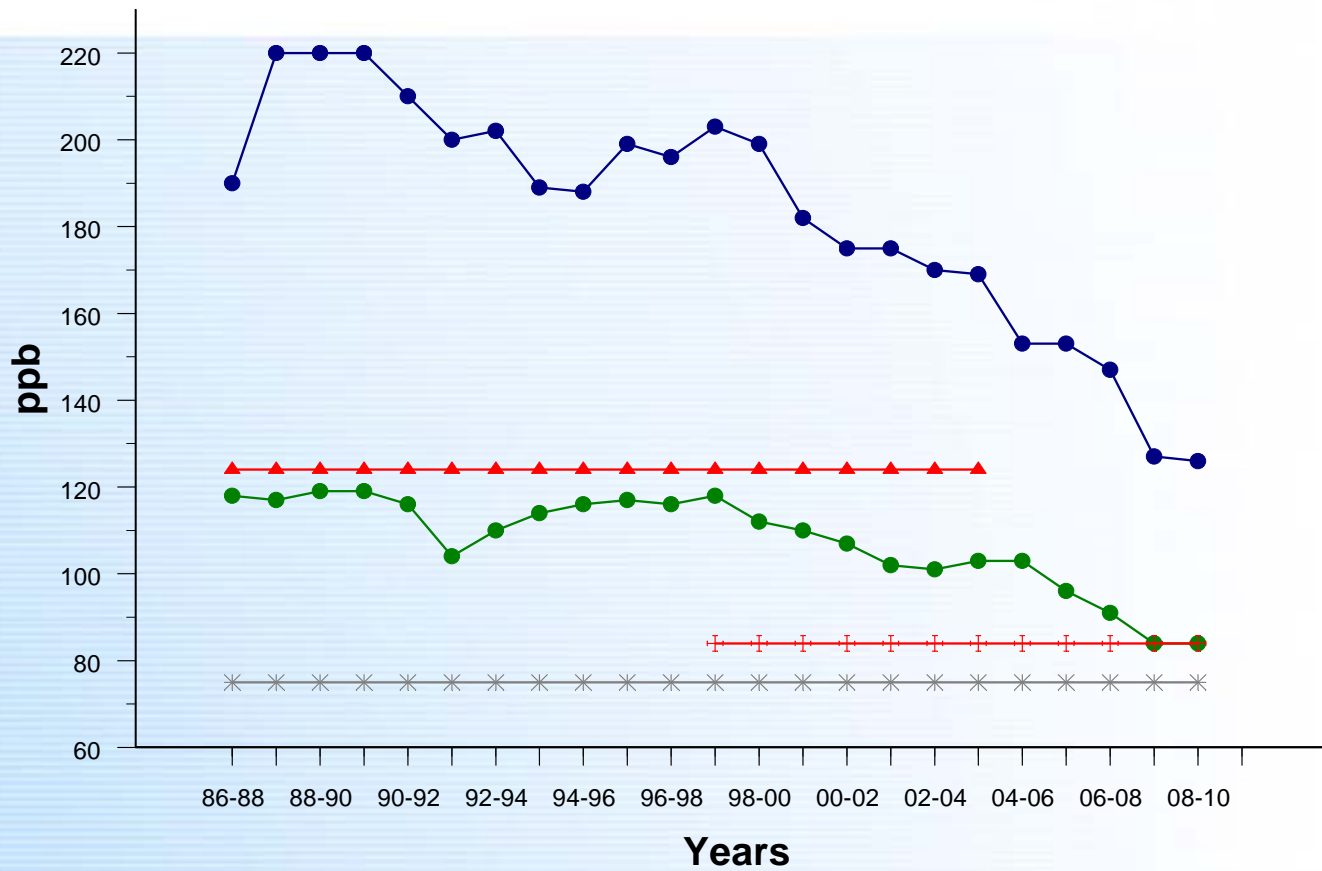
What about Houston?

- Preliminary 2008 to 2010 1-hour ozone design value is 126 ppb
- 8-hour ozone design value of 84 ppb (2007 to 2009 and 2008 to 2010)
- TCEQ proposed a fee program in late 2009
- TCEQ requested termination of the 185 SIP requirement in May 2010



Ozone Trends

Houston, Texas



- 1-hour ozone concentration
- ▲ old 1-hour standard
- 8-hour ozone concentration
- ⊕ 1997 8-hour standard
- * 2008 8-hour standard



Houston Ozone Monitor 4th High Values

Monitor	2007	2008	2009	2010
Manvel Croix Park	86	75	91	88
NW Harris Co.	90	76	86	82
Bayland Park	84	83	86	78
Wallisville Road	92	85	75	85



Revised Primary Sulfur Dioxide Standard

- June 2010: 1-hour SO₂ primary standard of 75 ppb
- Standard is 3 year average of 99th percentile of 1-hour daily maximum concentrations
- Jefferson County, TX violates the standard (85 ppb for 2007 to 2009, 77 for 2008 to 2010)



Plan for Revised SO2 Standard

Action	Date
State/Tribal Recommendations	No later than June 3, 2011
Initial Designations	No later than June 3, 2012
CAA 110(a) SIPs (Addresses Attainment & Unclassified Areas)	June 2013
Nonattainment SIPs	February 2014
Attainment & Maintenance Achieved	No later than February 2017



March 24, 2011: Guidance on Area Designations

- Available at: www.epa.gov/air/sulfurdioxide/guidance.html
- Attachment 1: Timeline
- Attachment 2: Determining Designations and Appropriate Boundaries
- Attachment 3: Modeling Guidance



Coming: SO₂ Implementation Guidance

- Focus is Maintenance SIPs due June 2013 (section 110(a)(1))
- April 2011 target: Draft guidance for public comment
 - Website for draft guidance to given in a Federal Register Notice of Availability
 - 60 day public comment period
- August 2011: Target for final SO₂ Implementation Guidance



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