

# **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

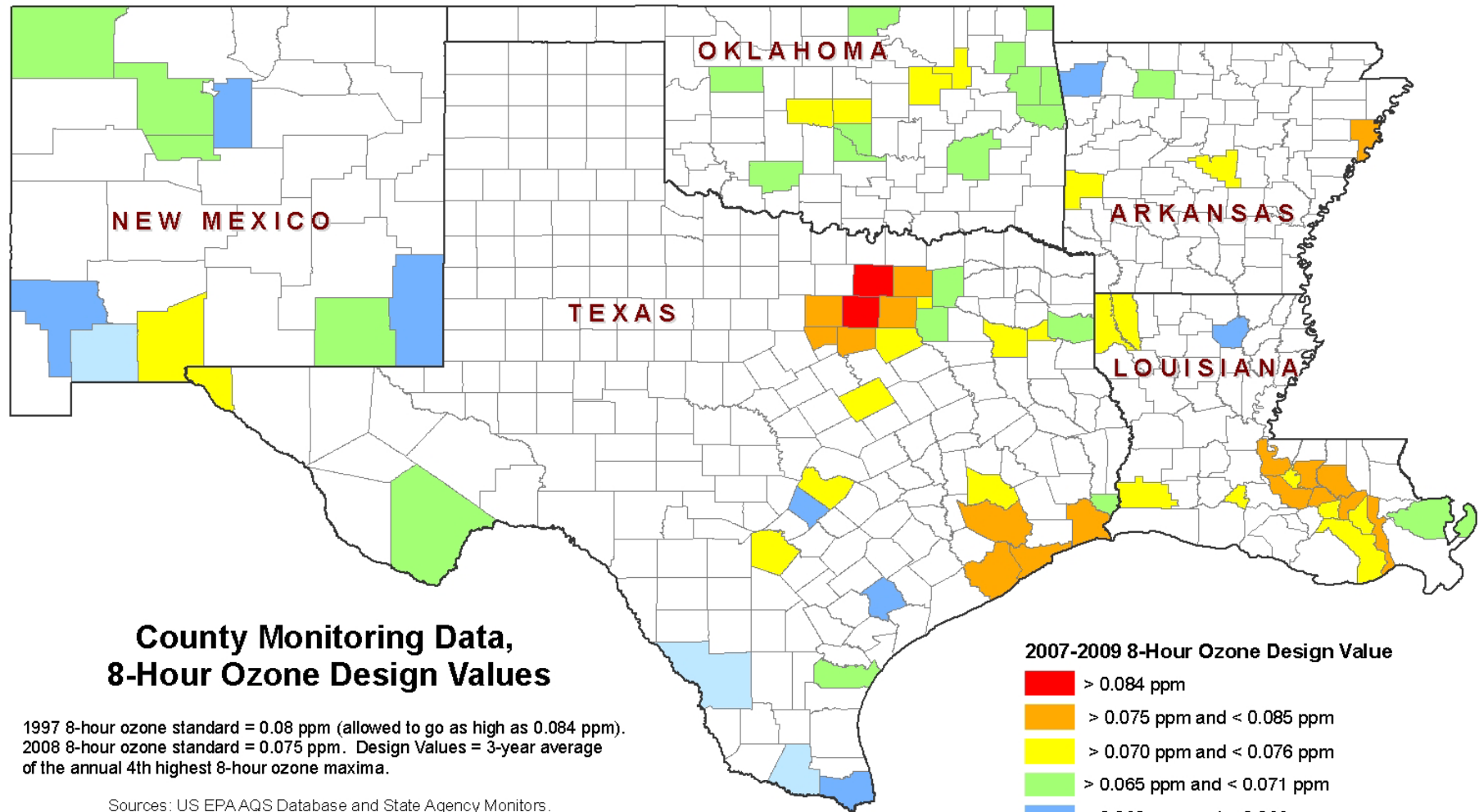


# 2008 8-Hour Ozone Standards

- 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




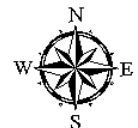
## County Monitoring Data, 8-Hour Ozone Design Values

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.

 EPA Region 6  
GIS Support Team  
April 14, 2009  
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<sub>x</sub> 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)



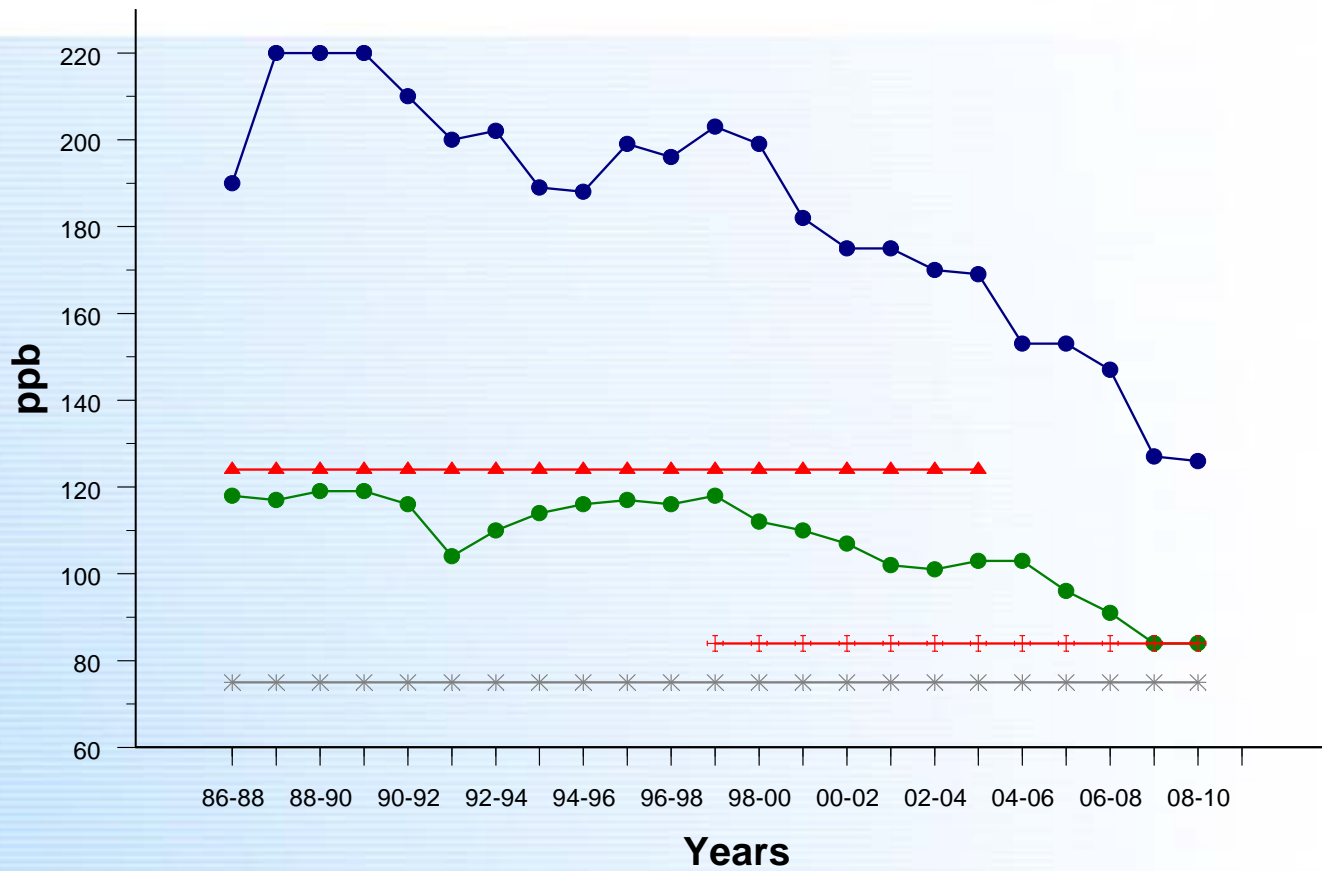
# What about Houston?

- 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 4<sup>th</sup> High Values

<b>Monitor</b>	<b>2007</b>	<b>2008</b>	<b>2009</b>	<b>2010</b>
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 SO<sub>2</sub> primary standard of 75 ppb
- Standard is 3 year average of 99<sup>th</sup> 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 SO<sub>2</sub> 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](http://www.epa.gov/air/sulfurdioxide/guidance.html)
- Attachment 1: Timeline
- Attachment 2: Determining Designations and Appropriate Boundaries
- Attachment 3: Modeling Guidance



# Coming: SO<sub>2</sub> 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 SO<sub>2</sub> Implementation Guidance



# For More Information

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