EPA Region 6

Air and Radiation Division
Region 6 Dallas

Wren Stenger, Director

March 2019
Overview of Priorities

• National Ambient Air Quality Standards
• Revoked Ozone Standards
• 2008 and 2015 Ozone Standards
• SIPs
• Regional Haze
• Sulfur Dioxide Nonattainment
• Ethylene Oxide
## EPA Region 6 Status for National Ambient Air Quality Standards

<table>
<thead>
<tr>
<th>NAAQS</th>
<th>AR</th>
<th>LA</th>
<th>NM</th>
<th>OK</th>
<th>TX</th>
</tr>
</thead>
<tbody>
<tr>
<td>1979 Ozone (124 ppb)</td>
<td>Revoked</td>
<td>Revoked</td>
<td>Revoked</td>
<td>Revoked</td>
<td>Revoked</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Revoked Redesignation Substitute: DFW and Houston</td>
</tr>
<tr>
<td>1997 Ozone (84 ppb)</td>
<td>Revoked</td>
<td>Revoked</td>
<td>Revoked</td>
<td>Revoked</td>
<td>Revoked</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Revoked Redesignation Substitute: DFW and Houston</td>
</tr>
<tr>
<td>2008 Ozone (75 ppb)</td>
<td>Attainment</td>
<td>Attainment</td>
<td>Attainment</td>
<td>Attainment</td>
<td>Nonattainment: DFW and Houston</td>
</tr>
<tr>
<td>2015 Ozone (70 ppb)</td>
<td>Attainment</td>
<td>Attainment</td>
<td>Nonattainment: Doña Ana County (partial)</td>
<td>Attainment</td>
<td>Nonattainment: DFW, Houston, San Antonio</td>
</tr>
<tr>
<td>SO2</td>
<td>Attainment</td>
<td>Nonattainment: St. Bernard &amp; Evangeline (partial) Designations not completed</td>
<td>Attainment</td>
<td>Designations not completed</td>
<td>Nonattainment: Titus, Rusk, Panola, Freestone, &amp; Anderson (partial) Designations not completed</td>
</tr>
<tr>
<td>Lead</td>
<td>Attainment</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>NO2</td>
<td>Attainment</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>PM2.5</td>
<td>Attainment</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Revoked Ozone Standards: 1979 1-Hour (124 ppb) and 1997 8-hour (84 ppb)

• 2018 D.C. Circuit Court *South Coast II Decision*:
  – Need 2nd 10-year maintenance plans for 1997 ozone standard for Beaumont/Port Arthur, West Memphis, Baton Rouge
  – Replace Houston and Dallas redesignation substitutes

• Texas redesignation requests/maintenance plans for revoked ozone standards:
  – Houston submitted December 2018
  – Beaumont/Port Arthur submitted February 2019
  – Dallas adoption scheduled for March 2019
  – El Paso adoption scheduled for April 2019
2008 8-Hour Standard (75 ppb)

- EPA proposed to reclassify Houston and Dallas to “Serious”
  - Final rule expected in Spring 2019
  - New attainment deadline of July 20, 2021 (2018-2020 data)
  - Final rule will set deadline for SIP submittals

- 2016-2018 Preliminary Design Values
  - Houston: 78 ppb
  - Dallas: 76 ppb
2015 Ozone Standard (70 ppb)

• Four “Marginal” nonattainment areas
• 2016-2018 Preliminary Design Values
  – Houston: 78 ppb
  – Dallas: 76 ppb
  – San Antonio: 72 ppb
  – Sunland Park, NM: 74 ppb

• Marginal Attainment Deadlines (2018-2020 data)
  – Houston, Dallas and Sunland Park: August 3, 2121
  – San Antonio: September 24, 2021
2015 Ozone Standard (cont.)

• SIP Revisions Due

2020

– Emissions Inventory of Ozone Precursors (NOx and VOC)
– Confirmation that large stationary sources certify their emission report

2021

– Confirmation that Nonattainment New Source Review provisions are met
Region 6 SIPs to be Processed (Mar. 18, 2019)

- Alb.: 1 Backlog SIP, 5 Current SIPs
- AR: 0 Backlog SIP, 9 Current SIPs
- LA: 0 Backlog SIP, 3 Current SIPs
- NMED: 1 Backlog SIP, 5 Current SIPs
- OK: 7 Backlog SIP, 9 Current SIPs
- TX: 9 Backlog SIP, 10 Current SIPs

Legend:
- Blue: Backlog SIPs
- Orange: Current SIPs
Regional Haze – 1st Round

Arkansas: Partial approved SIP and partial FIP

Louisiana: Fully approved SIP

Oklahoma: Partial approved SIP and partial FIP

New Mexico: Fully approved SIP

Texas: Partial approved SIP and partial FIP; August 2018 proposal to affirm SIP approval and FIP promulgation
Regional Haze—2nd Round

• January 2017 -- revised the Regional Haze Rule for the second implementation period and beyond.

• Summer 2019 -- guidance

• Regional Planning Offices (CENSARA, WRAP, MARAMA) and some states are conducting early modeling and other planning activities.

• July 2021 -- SIPs are due for the second implementation period ending in 2028.
Sulfur Dioxide Designations

Nonattainment or Unclassifiable Designations:

• Round 1 July 2013: St. Bernard Parish, LA nonattainment
• Round 2 June & November 2016:
  – Independence County, AR, Unclassifiable*
    *redesignated Attainment/Unclassifiable published 3/13/19, effective 4/12/19
  – Calcasieu Parish, LA, Unclassifiable
  – Freestone & Anderson Counties, TX, Nonattainment, partial county areas
  – Titus County, TX, Nonattainment, partial county area
  – Rusk & Panola Counties, Nonattainment, partial county areas
  – Milam County, Unclassifiable
  – Potter County, Unclassifiable
• Round 3. December 2017:
  – Evangeline Parish, LA, Nonattainment
  – St. Mary’s Parish, Unclassifiable
• Round 4 designations by December 2020 (2017-2019 data)
## Dates for SO₂ Nonattainment and Attainment SIPS

<table>
<thead>
<tr>
<th>DESIGNATION</th>
<th>NONATTAINMENT SIPs DUE</th>
<th>ATTAINMENT DATE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Round 1</td>
<td>April 2015</td>
<td>October 2018</td>
</tr>
<tr>
<td>Round 2</td>
<td>March 2018</td>
<td>September 2021</td>
</tr>
<tr>
<td>Round 3</td>
<td>August/September 2019</td>
<td>February/March 2023</td>
</tr>
<tr>
<td>Round 4</td>
<td>September 2022</td>
<td>March 2026</td>
</tr>
</tbody>
</table>
2014 National Air Toxics Assessment
Ethylene Oxide: Two-Pronged Approach

• EPA is reviewing its regulations for facilities that emit ethylene oxide, to include:
  • air toxics emissions standards for miscellaneous organic chemical manufacturing facilities
  • rules for other types of facilities, beginning with emissions standards for commercial sterilizers

• Regions will evaluate interim steps to reduce emissions ethylene oxide
  
  https://www.epa.gov/ethylene-oxide