SO2 NAAQS
Rulemaking and SIP

Stakeholder Workgroup Meeting
September 9, 2011
Sulfur Dioxide
Primary Standard

On April 30, 1971 EPA set the standard at
-0.14 parts per million, (ppm) 24-hour period
-0.030 ppm annual

-Standard reviews were made in 1988 and 1994, however no changes were made.
The New SO2 Standard

What’s New:

• Replace 24-hour and annual standards
• New 1-hour standard
• New data handling convention, 3-year average of the 99th percentile
• New requirements for SO2 monitoring network
• Conforming Changes to the Air Quality Index (AQI)
• Revised Standard was promulgated on June 22, 2010
  – 75 ppb 1-hr concentration
  – based on the 4th highest or the daily maximum 1–hr concentration averaged over 3 years.
It's a whole new world

• State Implementation Plan
  – Sect 110(a) SIPs due June 2013
  – Also known as the infrastructure SIP

• Attainment & Maintenance
  – Attainment demonstration due Feb 2014 with an attainment date of August 2017
  – All areas not designated nonattainment will submit maintenance plans in June 2013
Maintenance Plans

• Demonstrate, through refined air quality modeling, that all sources contributing to monitored and modeled violations of the new standard or that have the potential to cause or contribute to a violation, will be sufficiently controlled to ensure timely attainment and maintenance of the new SO2 standard; and

• Include, where needed, enforceable emissions limitations, timetables for compliance, and appropriate testing/reporting to assure compliance.
Potential Nonattainment Areas

- St. Bernard Parish
  - DV ≈ 340ppb
- West Baton Rouge Parish
  - Based upon the latest monitoring data, LDEQ may ask that WBRP be designated unclassifiable.
  - Fourth highest reading will have to remain below 101 ppb
Designations & Potential Hybrid Monitoring/Modeling Approach

Initial designations in 2012 will be based on data from existing monitors and, where provided by states, appropriate modeling.
Designations & Potential Hybrid Monitoring/Modeling Approach

- EPA’s planned designation approach is:
  - Any area that has monitoring data (or refined modeling results) showing a violation would be designated "nonattainment".
  - Any area that has both monitoring and refined modeling results showing no violations would be designated "attainment".
  - All other areas would initially be designated “unclassifiable”.
  - Parish would be the presumptive nonattainment boundary unless state demonstrates otherwise in recommendations to EPA.
## Sulfur Dioxide

### Air Quality Index (AQI)

<table>
<thead>
<tr>
<th>SO2 (ppm) 1-hour</th>
<th>AQI</th>
<th>Category</th>
</tr>
</thead>
<tbody>
<tr>
<td>0-0.035</td>
<td>0-50</td>
<td>Good</td>
</tr>
<tr>
<td>0.036-0.075</td>
<td>51-100</td>
<td>Moderate</td>
</tr>
<tr>
<td>0.076-0.185</td>
<td>101-150</td>
<td>Unhealthy for Sensitive Groups</td>
</tr>
<tr>
<td>0.186-0.304</td>
<td>151-200</td>
<td>Unhealthy</td>
</tr>
<tr>
<td>0.305-0.604</td>
<td>201-300</td>
<td>Very Unhealthy</td>
</tr>
<tr>
<td>0.605-0.804</td>
<td>301-400</td>
<td></td>
</tr>
<tr>
<td>0.805-1.004</td>
<td>401-500</td>
<td>Hazardous</td>
</tr>
</tbody>
</table>

**DEQ LOUISIANA**

**LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY**

*A CLEAN STATE OF MIND FOR ALL YOUR ENVIRONMENTS*
# Rulemaking Schedule

<table>
<thead>
<tr>
<th>Necessary steps</th>
<th>Timeline (dates are approximations)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Draft rule with FEIS, Reg Agenda, Family Impact statement, Small business form, and cost benefit analysis</td>
<td>January 2012</td>
</tr>
<tr>
<td>Any edits to forms or draft rule</td>
<td>February 2012</td>
</tr>
<tr>
<td>Proposed rule or rule revisions*</td>
<td>March 2012</td>
</tr>
<tr>
<td>This also includes a NOI which has to be submitted to the La Register</td>
<td></td>
</tr>
<tr>
<td>NOI or Potpourri published</td>
<td>March 20, 2012</td>
</tr>
<tr>
<td>Public Hearing and Comment period ends</td>
<td>End of April 2012</td>
</tr>
<tr>
<td>Comment summary (depending on comment volume, 30-60 days)</td>
<td>May-June 2012</td>
</tr>
<tr>
<td>Rule to Register (must allow 30 days for Legislative Oversight Committee to hear if necessary)</td>
<td>July 2012</td>
</tr>
<tr>
<td>Final Rule</td>
<td>August 2012</td>
</tr>
</tbody>
</table>
Resource

LDEQ SO2 Contacts

Bryan Johnston
Air Permits Division
(225) 219-3450
bryan.johnston@la.gov

Vivian Aucoin
Air Permits SIP Section
(225) 219-3419
vivian.aucoin@la.gov

Tim Bergeron
Air Permits Division
(225) 219-3410
timothy.bergeron@la.gov

Sonya Eastern
Air Permits SIP Section
(225) 219-3512
sonya.eastern@la.gov