



SO₂ NAAQS Rulemaking and SIP

Stakeholder Workgroup Meeting
September 9, 2011

LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY
A CLEAN STATE OF MIND FOR ALL YOUR ENVIRONMENTS



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)



SO₂ Primary Standard

- 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 \approx 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)

SO ₂ (ppm) 1 –hour	AQI	Category
0-0.035	0-50	Good
0.036-0.075	51-100	Moderate
0.076-0.185	101-150	Unhealthy for Sensitive Groups
0.186-0.304	151-200	Unhealthy
0.305-0.604	201-300	Very Unhealthy
0.605-0.804	301-400	
0.805-1.004	401-500	Hazardous



Rulemaking Schedule

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



Resource

- <http://www.epa.gov/ttn/naaqs/standards/so2/fr/20100622.pdf>
- <httpwww.deq.louisiana.gov/portal/DIVISIONS/AirPermi://ts/AirQualityPlanning.aspx>

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