MISSOURI
DEPARTMENT OF
NATURAL RESOURCES

# 2010 1-Hour Sulfur Dioxide ($SO_2$) Standard

## Data Requirements Rule (DRR) and Federal Consent Decree (CD) Overview

SEPTEMBER 2015

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# Presentation Outline

- Federal Consent Decree Round and MO Recommendations
- $SO_2$ Data Requirements Rule

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# Federal Consent Decree Round

- Federal consent decree (*Sierra Club et al. v. Gina McCarthy*) establishes deadlines for EPA to complete three additional rounds of designations
- Next round of designations: July 2, 2016 (aka 2016 Designations)
- States provide recommendations for designations
- EPA gives feedback on state recommendations 120 days before making final decision and allows states to submit additional information

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## 2010 1-hour SO2 NAAQS Existing and Recommended Nonattainment/Attainment Area Boundaries

**Legend**

Recommended Attainment Area Boundaries

Existing Nonattainment Areas

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Division of Environmental Quality
Air Pollution Control Program
Prepared: September 2, 2015

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# Missouri's Recommendations*

| Affected Area | Recommended Boundary | Area Designation Recommendations |
|---|---|---|
| Sikeston | All of Scott County | Attainment |
| Sibley | Portion of Jackson County | Attainment |
| Labadie | N/A | Unclassifiable |
| Iron County Monitor | N/A | No recommendation based on expected 2013-2015 monitoring data |

*Adopted by Commission on September 24, 2015. Submitted to EPA for consideration in designation process.

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# Data Requirements Rule Overview

- Final DRR signed Aug. 10, published in FR on Aug. 21*
- Requires sources that emitted more than 2,000 tpy $SO_2$ in most recent emission year (2014) to be evaluated
- Three evaluation options available for affected sources

*http://www.gpo.gov/fdsys/pkg/FR-2015-08-21/pdf/2015-20367.pdf

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# List of Missouri Sources affected by Final DRR based on 2014 Emissions

| # on Map | FID | Plant Name | 2014 Annual Actual Emissions (tons) |
|---|---|---|---|
| CD 1 | 071-0003 | AMEREN MISSOURI-LABADIE PLANT* | 33,091 |
| 1 | 143-0004 | NEW MADRID POWER PLANT-MARSTON | 16,672 |
| 2 | 175-0001 | THOMAS HILL ENERGY CENTER POWER DIVISION-THOMAS HILL | 16,575 |
| 3 | 189-0010 | AMEREN MISSOURI-MERAMEC PLANT | 11,702 |
| 4 | 083-0001 | KANSAS CITY POWER AND LIGHT CO-MONTROSE GENERATING STATION | 8,604 |
| CD 2 | 201-0017 | SIKESTON POWER STATION-SIKESTON POWER STATION* | 6,651 |
| 5 | 097-0001 | EMPIRE DISTRICT ELECTRIC CO-ASBURY PLANT | 6,318 |

| # on Map | FID | Plant Name | 2014 Annual Actual Emissions (tons) |
|---|---|---|---|
| 6 | 143-0008 | NORANDA ALUMINUM INC-NEW MADRID | 5,323 |
| 7 | 019-0004 | UNIVERSITY OF MISSOURI (MU)-POWER PLANT | 5,171 |
| CD 3 | 095-0031 | KCP AND L - GREATER MO OPERATIONS-SIBLEY GENERATING STATION* | 4,847 |
| 8 | 186-0001 | MISSISSIPPI LIME COMPANY-STE. GENEVIEVE | 3,285 |
| 9 | 077-0039 | CITY UTILITIES OF SPRINGFIELD MISSOURI-JOHN TWITTY ENERGY CENTER | 3,021 |
| 10 | 510-0003 | ANHEUSER-BUSCH INC-ST. LOUIS | 2,867 |
| 11 | 127-0001 | BASF CORPORATION-HANNIBAL PLANT | 2,560 |
| 12 | 095-0050 | INDEPENDENCE POWER AND LIGHT-BLUE VALLEY STATION | 2,105 |

*See CD Recommendation Slide for Area Recommendations. Per the final DRR, sources identified in the March 2015 consent decree should also be included on the January 2016 list of sources required for characterization under the final DRR.

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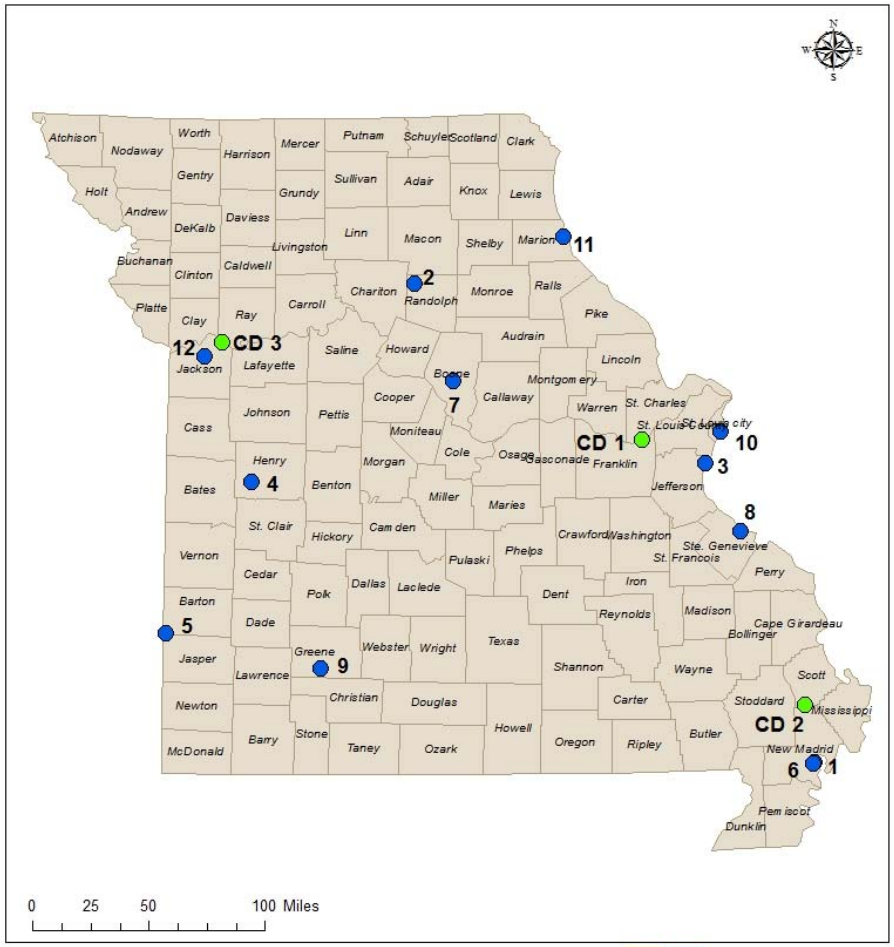
# MO Sources Affected by Final SO2 Data Requirements Rule based on 2014 Actual Emissions




**Legend**

- Sources Affected by Final DRR based on 2014 Emissions
- Sources Affected by CD and DRR
- County Boundaries

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# Pathways for Affected Sources

- Option 1: Limit annual emissions to less than 2,000 tons per year
- Option 2: Model using actual emissions
- Option 3: Install new monitors
- Limits enforceable through state SO2 rule (10 CSR 10-6.261)

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# Timeline for DRR Designations

- Jan. 15, 2016: Submit list of affected sources
- July 1, 2016: Submit characterization option and specific monitoring sites proposed in State's Annual Monitoring Network Plan.
- Jan 1, 2017: Deadline for new industrial monitors to be operational

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# Timeline for DRR Designations (cont.)

- Jan 13, 2017: Submit boundary recommendations for modeled areas
- Dec 2017: 2017 (modeled) designations promulgated by EPA
- May 2020: Submit boundary recommendations for monitored areas based on 2017-19 data
- Dec 2020: 2020 (monitored) designations promulgated by EPA

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Division of Environmental Quality Director: Leanne Tippett Mosby

Date: September 29, 2015

Nothing in this document may be used to implement any enforcement action or levy any penalty unless promulgated by rule under chapter 536 or authorized by statute.

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# Tentative Timeline for 2016 Designations

- July 27, 2015: Recommendation posted for public review & comment
- Aug. 27, 2015: Public hearing
- Sept. 24, 2015: MACC adoption & submit to EPA*
- Jan. 22, 2016: EPA's "120-day" letters
- April 8, 2016: Deadline for states to provide additional information
- July 2, 2016: EPA's final area designations
- Dec. 2, 2017: Nonattainment area plans due

* Though the deadline is September 18, EPA has assured us they will consider our recommendation even if submitted a week or so late.