

APPENDIX B

2015 Consent Agreement

for

Jefferson County

SO₂ Nonattainment Area

BEFORE THE MISSOURI DEPARTMENT OF NATURAL RESOURCES

IN THE MATTER OF:)
)
)
 Union Electric Company d/b/a) **No. APCP-2015-034**
 Ameren Missouri)
)

CONSENT AGREEMENT

The issuance of this Consent Agreement No. APCP-2015-034 (“Consent Agreement” or “Agreement”) by the Missouri Department of Natural Resources (“Department”) is a formal administrative action taken by the State of Missouri after conference with Ameren Missouri (“Ameren”). The parties agree this Consent Agreement is being issued to administer, implement, and enforce the purposes of the Missouri Air Conservation Law, Chapter 643, RSMo, and its implementing regulations. The parties agree that this Agreement is being issued as an administrative order under 643.060(4), RSMo. Ameren further agrees that a failure to comply with this Agreement is a violation of the Missouri Air Conservation Law under Section 643.151, RSMo.

BACKGROUND

In June 2010, the Environmental Protection Agency (“EPA”) promulgated the 1-hour Sulfur Dioxide (SO₂) primary National Ambient Air Quality Standard of 75 parts per billion (ppb) (“2010 SO₂ NAAQS”). The Department measures air quality through a network of ambient air quality monitors throughout Missouri. One monitor, known as the “Mott Street Monitor,” measured SO₂ values above the 2010 SO₂ NAAQS. These values were primarily attributable to the Doe Run Herculaneum primary Lead smelter, which was located in close proximity to the Mott Street Monitor. In August 2013, an area in Jefferson County, Missouri, around the Mott Street Monitor was designated a Non-Attainment Area. In accordance with the federal Clean Air

Act, 42 U.S.C. § 7410, et seq., as amended, the Department must develop a State Implementation Plan regarding the 2010 SO₂ NAAQS. In December 2013, the Doe Run Herculaneum primary Lead smelter ceased operations pursuant to a federally enforceable consent decree. Since the closure of this smelter, the monitored values at the Mott Street Monitor have been significantly lower and are expected to remain below the 2010 SO₂ NAAQS of 75 ppb. In 2014, the one-hour daily maximum measured SO₂ concentration value at the Mott Street Monitor was 23 ppb, significantly below the 2010 SO₂ NAAQS of 75 ppb. Although the main control strategy for the Non-Attainment Area (i.e. the closure of the smelter) has already been implemented, under the Clean Air Act, Missouri must still address the modeled impact from other SO₂ emission sources in and around the Jefferson County Non-Attainment Area in order to ensure that the area will attain the standard. In particular, Ameren's Rush Island Energy Center is located within the geographical boundaries of the Jefferson County Non-Attainment Area. Additionally, Ameren's Meramec Energy Center and Labadie Energy Center are located outside of the geographical boundaries of the Jefferson County Non-Attainment Area, but are close enough to the Jefferson County Non-Attainment Area to also have modeled impacts. Therefore, the Department and Ameren enter into this Consent Agreement whereby Ameren agrees to accept lower SO₂ emissions limits at the three energy centers mentioned above and install and operate an SO₂ monitoring network around the Rush Island Energy Center within the time schedules as set forth in this Consent Agreement.

In consideration of Ameren's agreement herein, the Department agrees to accept the implementation of the agreed to limits and commitment to monitoring around Rush Island Energy Center as sufficient under current information and belief, to demonstrate attainment and maintenance of the 2010 SO₂ NAAQS, as specified in 40 C.F.R. § 50.17, relating to the Jefferson

County Non-Attainment Area. The Department reserves the right to re-assess this conclusion as additional monitoring data becomes available.

AGREEMENT

1. **SO₂ Emission Limits.** The parties agree that no later than January 1, 2017, Ameren shall limit SO₂ emissions as specified below in Table 1. The Department is currently pursuing a rulemaking action which will promulgate the Table 1 emissions limits. The parties agree that upon the date that the proposed rule (proposed at 10 CSR 10-6.261) containing the emissions limits in Table 1, is adopted by EPA as a State Implementation Plan revision, this paragraph and Table 1 will automatically terminate and the state regulation will control.

Table 1—SO₂ Emissions Limits

Source	Source ID	Emission Limit per Source/Unit (Pounds SO₂ per Hour)	Averaging Time
Ameren Missouri— Labadie Energy Center	071003	40,837	24 hour block average
Ameren Missouri— Meramec Energy Center	1890010	7,371	24 hour block average
Ameren Missouri— Rush Island Energy Center	0990016	13,600	24 hour block average

2. **Reservation of Rights Regarding Adjustment of Table 1 Emission Limits.** The parties agree that nothing herein shall preclude the Department from taking regulatory action, including but not limited to a rulemaking, to seek additional emission reductions for 2010 SO₂ NAAQS Jefferson County attainment purposes beyond the SO₂ emission limits set

forth in Table 1, currently proposed in 10 CSR 10-6.261. Ameren reserves all rights to oppose, challenge, or contest such future regulatory action.

3. **Monitoring Network and Meteorological Data Requirements at Rush Island Energy**

Center. With respect to the Rush Island Energy Center, the parties agree that Ameren will voluntarily install, operate, and maintain, at its expense, ambient SO₂ air quality monitors, at locations representative of Rush Island Energy Center's SO₂ air quality impact, and meteorological (MET) monitoring station(s) (hereafter referred to together as "SO₂ Monitoring Network"). The SO₂ monitoring network installed shall begin operation on or before December 31, 2015, and shall operate for a minimum of 12 consecutive quarters. Ameren shall use its best efforts to promptly submit SO₂ monitoring network site locations and the Department shall use its best efforts to promptly review all SO₂ monitoring network site locations. The SO₂ Monitoring Network shall be installed, operated, and maintained in accordance with a Department approved Quality Assurance Project Plan ("QAPP") as detailed more fully in Appendix A.

4. **Ambient Air Quality Analysis Requirements.** The parties agree that for any ambient air quality analysis conducted pursuant to this Consent Agreement, such analysis shall be conducted using the most current version of the USEPA approved air quality dispersion models [i.e. AERMOD, AERMAP, and AERMET] and default modeling options unless Ameren demonstrates from data collected from SO₂ and meteorological monitors that other methodologies are more appropriate, as detailed more fully in Appendix 2.

5. Compliance and Enforcement Requirements

a. **Reporting Elevated Monitoring Values:** The parties agree that for the purposes of this Consent Agreement, an elevated monitoring value shall mean one occurrence of a measured SO₂ concentration that exceeds 75 ppb for one hour. When an elevated monitoring value at one of the monitoring locations of the SO₂ Monitoring Network is **greater than 75** (ppb), Ameren shall report the monitored information (the beginning and ending date and time, and the value for the applicable standard time period, and the corresponding meteorological data) within 10 days of the event to the Department. The Department recognizes that at the time of submission, the data will not yet be fully quality assured. Furthermore, the parties agree that Ameren will submit an analysis of the monitored information and any relevant operational information to the Department in accordance with the following schedule:

- i. For values **less than 86** ppb, Ameren shall submit such analysis on a *quarterly basis* in accordance with the normal data submittal as defined in the QAPP.
- ii. For values **greater than or equal to 86** ppb, Ameren shall submit such analysis within *30 calendar days* of the event using quality assured data.

b. **Requirements for Monitored SO₂ Monitoring Network Values Above 75 ppb:**

- i. If the annual 4th high monitored value is less than 86 ppb and is greater than 75 ppb, Ameren shall submit an ambient air quality analysis within 45 days of the collection of twelve (12) months of preliminary monitored data and corresponding MET data. The parties shall then meet and confer to discuss

the ambient air quality analysis. In the event that the parties agree that Rush Island's generating units are a cause of such monitored values, within 10 days of agreement, Ameren shall submit to the Department for consideration: proposed potential mitigation measures, SO₂ emissions limitations, and a schedule that provides for compliance with the 2010 SO₂ NAAQS within 6 months of the date of submittal. In the event that the parties do not reach an agreement, the parties' rights are reserved pursuant to paragraph 2.

- ii. If the annual 4th high monitored value or if the 4th high monitored daily value for the year to date, is greater than or equal to 86 ppb, Ameren shall submit an ambient air quality analysis within 45 days of the collection of six (6) months of preliminary monitored data and corresponding MET data. The parties shall then meet and confer to discuss the ambient air quality analysis. In the event that the parties agree that Rush Island's generating units are a cause of such monitored values, within 10 days of agreement, Ameren shall submit to the Department for consideration: proposed potential mitigation measures, SO₂ emissions limitations, and a schedule that provides for compliance with the 2010 SO₂ NAAQS within 6 months of the date of submittal. In the event that the parties do not reach an agreement, the parties' rights are reserved pursuant to paragraph 2.

- c. The parties agree that any SO₂ emission limits or operating conditions identified as a result of an ambient air quality analysis performed under this Consent Agreement shall be based on quality assured ambient and emissions data.

d. If the SO₂ Monitoring Network required by this Consent Agreement is not installed and operational by December 31, 2015, Ameren shall submit to the Department an ambient air quality analysis conducted pursuant to paragraph 4. The parties shall meet and confer to discuss the analysis and SO₂ emission limits that provide for attainment of the 2010 SO₂ NAAQS by January 1, 2017. In the event that the parties do not reach an agreement regarding SO₂ emissions limits, the parties' rights are reserved pursuant to paragraph 2.

e. Any additional reporting of monitoring and MET data required in response to the elevated monitored values described above is in addition to regular reporting requirements as specified in the approved QAPP.

OTHER PROVISIONS

6. The parties agree that this Consent Agreement will be submitted to the EPA as part of a State Implementation Plan revision, as required in 42 U.S.C. § 7401, et seq., to demonstrate attainment and maintenance of the 2010 SO₂ NAAQS, and will become federally enforceable upon EPA approval.
7. The parties agree that this Consent Order will be enforced according to the terms herein, as provided by law, notwithstanding any pending rulemakings or legislation.
8. The parties agree that this Consent Agreement shall not be construed as a waiver or a modification of any requirements of the Missouri Air Conservation Law and regulations or any other source of law, including but not limited to any Missouri law for affected sources located in undesignated areas that have elected to use monitoring to evaluate ambient air

quality, and that this Consent Agreement does not resolve any claims based on any failure by Ameren to meet the requirements of this Consent Agreement, or claims for past, present, or future violations of any statutes or regulations.

9. Nothing in this Consent Agreement is intended to constitute an admission or statement by Ameren that the Rush island Energy Center or any other Ameren generating unit has adversely impacted or has the potential to adversely impact the 2010 SO₂ NAAQS in the Jefferson County Nonattainment Area. Rather, this Consent Agreement is intended to facilitate the voluntary collection of data so as to assist the State of Missouri with assessing the existing air quality within and around the currently designated non-attainment area in the vicinity of Rush Island based upon accurate and representative data.

10. The provisions of this Consent Agreement shall apply to and be binding upon the parties executing this Consent Agreement, their agents, subsidiaries, successors, assigns, affiliates, and lessees, including the officers, agents, servants, corporations and any persons acting under, through, or for the parties agreeing hereto. Any changes in ownership or corporate status, including but not limited to any transfer of assets or real or personal property, shall not affect the responsibilities of Ameren under this Consent Agreement. If Ameren sells or otherwise transfers its business or the real estate that is the situs of the Energy Centers referenced in this Consent Agreement, then Ameren shall cause as a condition of such sale or transfer, that the buyer will assume the obligations of Ameren under this Consent Agreement in writing. In such event, Ameren shall provide thirty (30) days prior written notice of such assumption to the Department.

- 11.** For any plan or submittal that is required and/or subject to Department approval under this Consent Agreement, Ameren shall submit such in writing, either by electronic mail, United States Postal Service or other carrier service. The Department may approve, disapprove, require revisions, or otherwise modify any such plan or submittal. Any such Department decision shall be conveyed in writing to Ameren. Disapproval may result in orders or pursuit of other forms of relief by the Department. If the Department requires revisions, Ameren shall submit a revised version of the plan or submittal within 10 business days after receiving notice of the Department's required revisions, or within such other timeframe as the Department may specify. If the Department approves or modifies in writing such plan or submittal, it shall become enforceable under this Consent Agreement, and Ameren shall commence work and implement such approved or modified plan in accordance with the schedule and provisions contained therein. Notwithstanding, the Department recognizes that timeframes within the Consent Agreement may be dependent on timely approval, disapproval or modification by the Department and Ameren reserves the right to request an extension of any of the timeframes by mutual agreement of the Department. The Department reserves the right to reasonably deny any such request.
- 12.** This Consent Agreement shall be construed and enforced according to the laws of the State of Missouri, and the terms stated herein shall constitute the entire and exclusive agreement of the parties hereto with respect to the matters addressed herein. The parties agree that the enforceability of this Consent Agreement shall be subject to the procedures for enforcement of orders granted to the Department. The terms of this Consent Agreement supersede all previous memoranda of understanding, notes, conversations, and agreement.

13. If any provision of this Consent Agreement is found to be unenforceable in any respect, the validity, legality, and enforceability of the remaining provisions shall not in any way be affected or impaired.
14. Nothing in this Consent Agreement excuses Ameren for any future non-compliance with the laws of the State of Missouri, and the Department expressly reserves the right to address future noncompliance in any manner authorized by law.
15. This Consent Agreement will become final, effective, and fully enforceable by the Department once it is executed by each of the parties. The Department shall send a fully executed copy of this Consent Agreement to Ameren.

CORRESPONDENCE AND DOCUMENTATION

Correspondence or documentation with regard to this Consent Agreement shall be directed to the following persons, subject to change upon written notification from either party:

For the Department:

Kyra Moore
Air Pollution Control Program
Missouri Department of Natural Resources
P.O. Box 176
Jefferson City, Missouri 65102-0176

For Ameren:

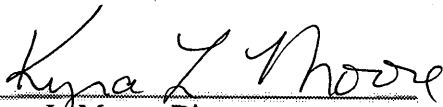
Chris Iselin
Senior Vice President - Power Operations and Energy Management
1901 Chouteau Avenue
Mail Code 601
St. Louis, MO 63103

RIGHT OF APPEAL


Notwithstanding the rights reserved in paragraph 2, by signing this Consent Agreement, Ameren waives any right to appeal, seek judicial review, or otherwise challenge this Consent Agreement pursuant to Sections 643.130, 643.085, or 621.250 RSMo, Chapters 536, 643, or 640 RSMo, 10 CSR 10-1.030, or any other source of law.

Agreed to:

**MISSOURI DEPARTMENT OF
NATURAL RESOURCES**


Kyra L. Moore, Director
Air Pollution Control Program

AMEREN MISSOURI


Chris Isefin, Senior Vice President
Power Operations and Energy
Management

Date: 3/23/15

Date: 3/23/15

Appendix 1

Additional QAPP Components

Ameren shall develop a Quality Assurance Plan and a Standard Operating Plan [specific to the SO₂ Monitoring Network] for Department approval. Quality Assurance (QA) protocols must be at least as stringent as the QA requirements of 40 CFR Part 58 and the Quality Assurance Handbook for Air Pollution Measurement Systems. Ameren shall maintain a log of all quality assurance activities performed and reported as required in the QAPP on all SO₂ monitors and meteorological monitoring stations. Ameren shall provide the Department with adequate notice and opportunity to observe or audit such quality assurance activities. The parties further agree that the QAPP shall contain or otherwise address the following:

- a. Operation of the ambient SO₂ monitoring network shall commence as soon as practical following approval by the Department but no later than December 31, 2015. So as to facilitate the Department's timely approval of the monitoring network, Ameren shall:
 - i. Submit final network site recommendations to the Department, which shall be subject to Department approval, no later than **May 1, 2015**. At a minimum, Ameren's recommendation shall include:
 1. The date that sampling is expected to commence. The parties agree that sampling will begin no later than the commencement of operation of the SO₂ monitoring network;
 2. A list of the information to be reported (e.g. hourly concentrations); and
 3. Justification for monitoring area site selections/recommendations.
 - ii. Within 60 days of approval of the monitoring site locations, Ameren shall submit a Quality Assurance Project Plan ("QAPP") to the Department, which shall be subject to Department approval. Ameren shall use the Air Pollution Control Program's QAPP template and QAPP review checklist to prepare the QAPP submittal satisfying this Consent Order.
 - iii. Notify the Department that network site shelters and structures, as appropriate, are operational. This notification shall also confirm that network equipment and instrumentation are both installed and calibrated, no later than **December 31, 2015**. The Department shall be notified and be present during initial calibration of the monitoring stations.
 - iv. Notify the Department that the approved network is reporting valid data no later than **December 31, 2015**.

- b. The parties agree that the number and location of SO₂ monitors and meteorological station(s) shall ensure that the approved SO₂ monitoring network represents ambient air quality in areas of maximum SO₂ impact from the Rush Island Energy Center. Requirements specific to SO₂ monitoring and MET monitoring station(s) located in the state of Illinois shall be prescribed per an approved QAPP.
- c. The parties agree that Ameren shall provide the Department access to a database to review preliminary data as soon as practicable and report to the Department quality assured data collected in accordance with the reporting schedule outlined in the Department-approved QAPP.
- d. Following monitor installation, Ameren shall be responsible for monitor maintenance and quality assurance activities. Ameren shall provide the Department with adequate notice and opportunity to observe or audit such quality assurance activities.
- e. In conjunction with the requirements of the Department-approved SO₂ Monitoring Network, the parties agree that Ameren shall keep records of the daily hours of operation and the amount of SO₂ emissions emitted from each emission unit at Rush Island Energy Center. Ameren shall record this information for the duration of the SO₂ monitoring program. Ameren shall submit this information to the Department with the SO₂ monitoring network data as specified by the Department-approved QAPP.
- f. The parties agree that prior to removal of any part of the SO₂ Monitoring Network, Ameren must submit and the Department must approve a formal request to discontinue all or part of the Department-approved SO₂ Monitoring Network. The complete SO₂ Monitoring Network shall remain in operation until approval for discontinuation has been granted. The parties agree that Ameren's formal request shall contain at a minimum:
 - i. A comparison of the monitored data [specifically data representing typical operations] versus SO₂ operational parameters data collected at Rush Island Energy Center. The parties agree that the Department retains approval authority regarding any emission data substitution methods and/or data substitution models to address missing data and/or data completeness criteria, such as but not limited to data substitution specific to maximum potential SO₂ concentrations and substitution methods allowed per 40 CFR Part 75;
 - ii. An analysis of the ambient monitored data with respect to the 2010 SO₂ NAAQS standard; and
 - iii. A detailed technical discussion of Rush Island Energy Center's impact on the monitored data that meets the following specifications:
 - 1. Data collection from SO₂ monitors shall satisfy a minimum seventy-five percent (75%) data completeness requirement. Data collection from on-site meteorological stations shall satisfy a minimum ninety percent (90%) data completeness requirement. If both of these data

requirements are not satisfied, monitoring must continue until these minimum requirements are met; and

2. The monitors only record annual 4th highest SO₂ concentrations less than eighty-five percent (85%) of the standard for a period of at least three (3) consecutive years. As part of this request, Ameren will submit to the Department an analysis of ambient concentrations and SO₂ emissions information evaluating the relationship of Rush Island Energy Center's SO₂ emissions to the measured ambient SO₂ data.

Appendix 2

Model Performance Analysis

This Appendix shall apply if default modeling options [as prescribed by the most current USEPA AERMOD guidance documents] are not used when an ambient air quality analysis is conducted. Any deviation from default modeling options per the most current version of the EPA approved air quality dispersion models [i.e., AERMOD, AERMAP and AERMET] shall be addressed according to the following model performance analysis requirements. Pursuant to Department review and approval, such non-default options shall be used to reconcile modeled impacts that do not coincide with monitored values.

- a. Ameren shall conduct a study to compare SO₂ modeled and monitored concentrations at the Rush Island Energy Center. The purpose of the study is to collect data and to use the data to evaluate the performance of the AERMOD model at predicting air quality concentrations in the area surrounding the Rush Island Energy Center.
- b. Ameren shall submit a model performance analysis protocol to the Department 45 days prior to conducting the ambient air quality analysis. Subject to Department review and approval, the model performance analysis protocol shall contain, at a minimum, an evaluation:
 - i. To determine if the model is overestimating or underestimating the measured concentrations.
 - ii. To measure the accuracy of the model in estimating the observed concentrations on a paired in time and space basis.
 - iii. To determine the viability of the model in estimating the upper percentile concentrations regardless of time and space (non-paired), i.e., predicting the peak concentrations.
 - iv. To resolve discrepancies between the modeled and observed concentrations (e.g. use of beta options).

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Appendix 1

Addendum to 2015 Consent Agreement for Jefferson County SO₂ Maintenance Area

BEFORE THE MISSOURI DEPARTMENT OF NATURAL RESOURCES

In the Matter of:

Union Electric Company d/b/a

Ameren Missouri

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No. APCP-2015-034

CONSENT AGREEMENT ADDENDUM

Pursuant to Consent Agreement No. APCP-2015-034 entered into the record in the matter of Union Electric Company d/b/a Ameren Missouri ("Ameren") dated March 23, 2015, this addendum details the monitoring, recordkeeping, and reporting requirements associated with the emission limits in Table 1 of the Consent Agreement for coal-fired steam electric generating units at the Labadie, Meramec and Rush Island energy centers. This addendum revises the Correspondence and Documentation section of the Consent Agreement and supplements Consent Agreement Item 5- Compliance and Enforcement Requirements for the purposes of ensuring practical enforceability of the limits in Table 1 of the Consent Agreement. Practical enforceability is necessary for the limits to be approvable in the Missouri State Implementation Plan (SIP). This Consent Agreement Addendum will be submitted to the U.S. Environmental Protection Agency (EPA) as part of a SIP revision, and will become federally enforceable upon EPA approval of the SIP revision.

ADDENDUM TO CONSENT AGREEMENT

5. Compliance and Enforcement Requirements

f. **Emission Unit Monitoring Requirements:**

Compliance with the limits in Table 1 of the Consent Agreement shall be based on the SO₂ Continuous Emission Monitoring System (CEMS) data for the following affected units:

Table 2 – Units Subject to Facility-Wide Emission Limits in Table 1

Unit Name	Operating Permit Identifier	Emission Inventory Identifier
Labadie Energy Center		
Boiler 1	B-1	B1
Boiler 2	B-2	B2
Boiler 3	B-3	B3
Boiler 4	B-4	B4
Meramec Energy Center		
Boiler 3	EU003	003
Boiler 4	EU004	004
Rush Island Energy Center		
Boiler 1	B-1	B-1
Boiler 2	B-2	B-2

Ameren has installed and certified SO₂ CEMS on the affected emission units identified in Table 2 according to the requirements of 40 CFR 75.20(c)(1) and 40 CFR 60 Appendix B. Ameren continues to meet the ongoing quality assurance requirements of 40 CFR 75.21 and 40 CFR part 75 Appendix B, and these CEMS may be used to meet the monitoring requirements of this Consent Agreement.

Per the requirements of 40 CFR 75.10 (d), the CEMS will be in operation at all times that the affected unit combusts fuel, except as provided in 40 CFR 75.11(e) and during periods of calibration, quality assurance, or preventive maintenance, performed pursuant to 40 CFR 75.21. Other exceptions to operating times include

those identified in 40 CFR 75 Appendix B, including periods of repair, periods of backups of data from the data acquisition and handling system, or recertification performed pursuant to 40 CFR 75.20.

The SO₂ data used in the Compliance Determination in Paragraph 5.g. of this Consent Agreement and used to meet the Reporting Requirements of this Consent Agreement included in Paragraph 5.i. below shall not include substitute data values derived from the missing data procedures in 40 CFR 75 subpart D, nor shall the SO₂ data have been bias adjusted according to the procedures in 40 CFR 75.

g. Compliance Determination:

Quality assured hourly SO₂ CEMS data will be used to determine compliance with the facility-wide emission limits in Table 1. Ameren shall use the following procedures to calculate the 24-hour block average facility-wide emission rate for SO₂ using CEMS data for each facility listed in Table 1:

- i. For each calendar day 24-hour block and for each coal fired steam electric generating unit listed in Table 2 for that facility, include only hours that meet the primary equipment hourly operating requirements of 40 CFR 75.10 (d). Hours when the units are experiencing startup, shutdown, or malfunction conditions will be used for the calculation if they meet the primary equipment hourly operating requirements of 40 CFR 75.10 (d).
- ii. For each unit, for the included hours as determined in accordance with paragraph 5.g.i., sum the calendar day 24-hour block SO₂ emissions in pounds and divide by the number of included hours for that unit.

iii. Sum the calendar day 24-hour block average emission rates as calculated in paragraph 5.g.ii. for each unit listed in Table 2 at the facility. Compliance for the facility is determined by comparing this sum to the facility-wide emission limits in Table 1.

h. **Recordkeeping:**

i. Ameren shall maintain all hourly data and computations related to the calendar day 24-hour block SO₂ average for a period of at least 5 years. Data will be made available within 5 business days from a written or electronic request from department staff.

ii. Ameren shall maintain a record of data, calculations, results, records, and reports from any SO₂ emissions performance test.

iii. Ameren shall maintain a record of any applicable SO₂ monitoring data, SO₂ continuous emission monitoring system performance evaluations, calibration checks, monitoring system and device performance tests, and any adjustments and maintenance performed on these systems or devices.

i. **Reporting:**

i. Ameren shall report on compliance with the emission limits in Table 1 on a facility basis with these conditions on the same schedule as the annual compliance certification required in accordance with the operating permits issued under 40 CFR Part 70.

ii. On a quarterly basis, Ameren shall make a summary report of excess emissions and monitoring system downtime for each facility limit listed in Table 1 in accordance with the requirements of 40 CFR 60.7(c) for the

monitoring conducted in accordance with the requirements of this Consent Agreement. In this summary report, Ameren shall identify all periods of excess emissions within thirty (30) days following the end of the quarter. In all cases, the report must be a written report and include, at a minimum, the following:

- A. Name and location of source;
- B. Name and telephone number of person responsible for the source;
- C. Identity and description of the equipment involved;
- D. Time and duration of the period of SO₂ excess emissions;
- E. Type of activity;
- F. Estimate of the magnitude of the SO₂ excess emissions expressed in the units of the applicable emission control regulation and the operating data and calculations used in estimating the magnitude;
- G. Measures taken to mitigate the extent and duration of the SO₂ excess emissions; and
- H. Measures taken to remedy the situation which caused the SO₂ excess emissions and the measures taken or planned to prevent the recurrence of these situations.

j. **Testing:**

- i. Ameren shall use one or more of the following test methods contained in 40 CFR 60, Appendix A, published as of July 1, 2018.

- A. Method 1: Sample and velocity transverses for stationary sources

- B. Method 2: Determination of stack gas velocity and volumetric flow rate (Type S pitot tube)
 - C. Method 3: Gas analysis for the determination of dry molecular weight
 - D. Method 4: Determination of moisture content in stack gases
 - E. Method 6: Determination of Sulfur Dioxide Emissions from Stationary Sources
 - F. Method 6A: Determination of Sulfur Dioxide, Moisture, and Carbon Dioxide from Fossil Fuel Combustion Sources
 - G. Method 6B: Determination of Sulfur Dioxide and Carbon Dioxide Daily Average Emissions from Fossil Fuel Combustion Sources
 - H. Method 6C: Determination of Sulfur Dioxide Emissions from Stationary Sources (Instrument Analyzer Procedure)
 - I. Method 8: Determination of sulfuric acid mist and sulfur dioxide emissions from stationary sources
- ii. As a source using an SO₂ CEMS to demonstrate compliance with the limits in Table 1, Ameren shall follow the requirements in 40 CFR 75, promulgated as of June 30, 2018, and/or 40 CFR 60, appendices B and F, promulgated as of July 1, 2018.

CORRESPONDENCE AND DOCUMENTATION

Correspondence or documentation with regard to this Consent Agreement shall be directed to the following persons, subject to change upon written notification from either party:

For the Department:

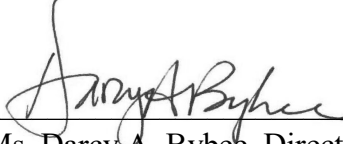
Compliance and Enforcement Section Chief
Air Pollution Control Program
Missouri Department of Natural Resources
P.O. Box 176
Jefferson City, Missouri 65102-0176

For Ameren:

Senior Vice President – Customer and Power Operations
1901 Chouteau A venue
Mail Code 601
St. Louis, MO 63103

AGREED TO AND ORDERED

**MISSOURI DEPARTMENT OF
NATURAL RESOURCES**



Ms. Darcy A. Bybee, Director
Air Pollution Control Program
Missouri Department of
Natural Resources

Date: December 14, 2020

AMEREN MISSOURI



Mark Birk, Senior Vice President
Customer and Power Operations

Date: 12/11/2020