

**PUBLIC HEARING ON  
PROPOSED AMENDMENT TO**

**10 CSR 10-6.030**

**SAMPLING METHODS FOR AIR POLLUTION SOURCES**

This amendment will change sections (21), (22), and (23).

Section (21) is being amended to remove incorporation by reference information not specific to sampling methods and make administrative updates.

Section (22) is being amended to remove incorporation by reference information not specific to sampling methods.

Section (23) is being amended to make administrative updates.

*NOTE 1 - Legend for rule actions to be presented at public hearing is as follows:*

- \* Shaded Text - Rule sections or subsections not proposed for amendment. This text is only for reference.*
- \* Unshaded Text - Rule sections or subsections that are proposed for change.*

*NOTE 2 - All unshaded text below this line is printed in the Missouri Register.*

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**Title 10—DEPARTMENT OF  
NATURAL RESOURCES**

**Division 10—Air Conservation Commission**

**Chapter 6—Air Quality Standards, Definitions, Sampling and Reference Methods and Air  
Pollution Control Regulations for the Entire State of Missouri**

**PROPOSED AMENDMENT**

**10 CSR 10-6.030 Sampling Methods for Air Pollution Sources.** The commission proposes to amend sections (21), (22), and (23). If the commission adopts this rule action, the department intends to submit this rule amendment to the U.S. Environmental Protection Agency to replace the current rule that is in the Missouri State Implementation Plan. The evidence supporting the need for this proposed rulemaking is available for viewing at the Missouri Department of Natural Resources' Air Pollution Control Program at the address listed in the Notice of Public Hearing at the end of this rule. More information concerning this rulemaking can be found at the Missouri Department of Natural Resources' Proposed Rules website [www.dnr.mo.gov/proposed-rules](http://www.dnr.mo.gov/proposed-rules).

*PURPOSE: This rule defines methods for performing emissions sampling on air pollution*

*sources throughout Missouri when required in the Air Conservation Commission emission rules. The purpose of this rulemaking is to clean-up the incorporation by reference information in this rule to address the U.S. Environmental Protection Agency (EPA) concerns. The evidence supporting the need for this proposed rulemaking, per 536.016, RSMo, is an email dated September 18, 2018 from EPA.*

*PURPOSE: This rule defines methods for performing emissions sampling on air pollution sources throughout Missouri when required in the Air Conservation Commission emission rules.*

- (1) Samples and velocity traverses for source sampling shall be conducted using Method 1 as specified by 40 CFR part 60, Appendix A in section (22) of this rule.
- (2) The velocity of stack gases shall be determined by measuring velocity head using a Type “S” (Stauscheibe or reverse type) pitot tube using Method 2 as specified by 40 CFR part 60, Appendix A in section (22) of this rule.
- (3) The carbon dioxide, oxygen, excess air, and dry molecular weight contained in stack gases shall be determined using Method 3 as specified by 40 CFR part 60, Appendix A in section (22) of this rule.
- (4) The moisture content in stack gases shall be determined using Method 4 as specified by 40 CFR part 60, Appendix A in section (22) of this rule.
- (5) Particulate Matter Emissions.
  - (A) The concentration of particulate matter emissions in stack gases shall be determined using Method 5 as specified by 40 CFR part 60, Appendix A in section (22) of this rule.
  - (B) The quantity of particulate matter emissions from certain industrial processes as determined by the director shall be determined using Method 17 as specified by 40 CFR part 60, Appendix A in section (22) of this rule.
  - (C) The concentration of particulates of PM<sub>10</sub> shall be determined using Method 201 as specified by 40 CFR part 51, Appendix M in section (21) of this rule. When water droplets are known to exist in emissions, use Method 5 as defined in subsection (5)(A) of this rule and consider the particulate catch to be PM<sub>10</sub> emissions.
  - (D) The concentration of particulates of PM<sub>10</sub> shall be determined using Method 201A as specified by 40 CFR part 51, Appendix M in section (21) of this rule. When water droplets are known to exist in emissions, use Method 5 as defined in subsection (5)(A) of this rule and consider the particulate catch to be PM<sub>10</sub> emissions.
  - (E) The concentration of condensable particulate matter (CPM) emissions in stack gases shall be determined using Method 202 and Conditional Test Method 039 as specified by 40 CFR part 51, Appendix M in section (21) of this rule may be used to determine the total PM<sub>10</sub> and PM<sub>2.5</sub> fraction of filterable particulate matter including condensables.
  - (F) The concentration of PM<sub>2.5</sub> emissions in stack gases shall be determined using

Method 202 and Conditional Test Method 040 as specified by 40 CFR part 51, Appendix M Conditional Test Method 039 as specified in 40 CFR part 51, Appendix M in section (21) of this rule may be used to determine the total PM<sub>10</sub> and PM<sub>2.5</sub> fraction of filterable particulate matter including condensables.

- (6) The sulfur dioxide emissions from air pollution sources shall be determined using Method 6 as specified by 40 CFR part 60, Appendix A in section (22) of this rule.
- (7) The nitrogen oxide emissions from air pollution sources shall be determined using Method 7 as specified by 40 CFR part 60, Appendix A in section 22 of this rule.
- (8) The sulfuric acid mist and sulfur dioxide emissions from air pollution sources shall be determined using Method 8 as specified by 40 CFR part 60, Appendix A in section (22) of this rule.
- (9) Visible Emissions.
  - (A) The visible emissions from air pollution sources shall be evaluated using Method 9 as specified by 40 CFR part 60, Appendix A in section (22) of this rule.
  - (B) Visible fugitive emissions shall be evaluated using Method 22 as specified by 40 CFR part 60, Appendix A in section (22) of this rule.
- (10) The carbon monoxide emissions from air pollution sources shall be determined using Method 10 as specified by 40 CFR part 60, Appendix A in section (22) of this rule.
- (11) The hydrogen sulfide emissions from air pollution sources shall be determined using Method 11 as specified by 40 CFR part 60, Appendix A in section (22) of this rule.
- (12) The lead emissions from air pollution sources shall be determined using Method 12 as specified by 40 CFR part 60, Appendix A in section (22) of this rule.
- (13) The total fluoride emissions and the associated moisture content from air pollution sources shall be determined using Method 13A and 13B as specified by 40 CFR part 60, Appendix A in section (22) of this rule. For Method 13A or 13B, the sampling time for each run shall be at least sixty (60) minutes and the minimum sample volume shall be at least 0.85 standard dry cubic meter (thirty (30) standard dry cubic foot) except that shorter sampling times or smaller volumes, when necessitated by process variables or other factors, may be approved by the director.
- (14) Volatile organic compound emissions from air pollution sources shall be determined—
  - (A) Using Method 25 as specified by 40 CFR part 60, Appendix A in section (22) of this rule;
  - (B) Using Method 27 as specified by 40 CFR part 60, Appendix A in section (22) of this rule;
  - (C) Using Method 24 as specified by 40 CFR part 60, Appendix A in section (22) of this rule;
  - (D) Using Method 24A as specified by 40 CFR part 60, Appendix A in section(22) of

- this rule; or
- (E) Using Method 21 as specified by 40 CFR part 60, Appendix A in section (22) of this rule.
- (15) The hydrogen chloride emissions from air pollution sources shall be determined using Method 26 as specified by 40 CFR part 60, Appendix A in section (22) of this rule.
- (16) Dioxin and furan emissions from air pollution sources shall be determined using Method 23 as specified by 40 CFR part 60, Appendix A in section (22) of this rule.
- (17) The mercury emissions, both particulate and gaseous, from air pollution sources shall be determined using Method 101A as specified by 40 CFR part 61, Appendix B in section (23) of this rule.
- (18) The latest effective date of any 40 CFR part 60, Appendix A—Test Methods shall be as designated in 10 CSR 10-6.070 New Source Performance Regulations.
- (19) Alternative Sampling Method. An alternative sampling method to any method referenced in this rule may be used provided it is in accordance with good professional practice, provides results of at least the same accuracy and precision as the replaced method and receives the approval of the director for its use.
- (20) The capture efficiency of air pollution control devices shall be determined as specified by the U.S. Environmental Protection Agency’s (EPA’s) February 7, 1995 memorandum entitled, “Revised Capture Efficiency Guidance for Control of Volatile Organic Compound Emission” (GD 36) and the U.S. EPA’s January 9, 1994 technical document entitled, “Guidelines for Determining Capture Efficiency.” (GD 35) as published by EPA and hereby incorporated by reference in this rule. Copies can be obtained from the Office of Air Quality Planning and Standards, Leader, Measurement Technology Group, (Mail Code E143-02), Research Triangle Park, NC 27711. This rule does not incorporate any subsequent amendments or additions. For automobile and light-duty truck topcoat operations, the capture efficiency of air pollution control devices shall be determined as specified in U.S. EPA’s document entitled, “Protocol for Determining the Daily Volatile Organic Compound Emission Rate of Automobile and Light-Duty Truck Topcoat Operations” (US EPA-453/R-08-002), as published by EPA September 2008 and hereby incorporated by reference in this rule. Copies can be obtained from the National Technical Information Service (NTIS), 5285 Port Royal Road, Springfield VA 22161. This rule does not incorporate any subsequent amendments or additions.
- (21) 40 CFR 51, [~~Appendices~~ **Appendix M** [~~, and W, and Subparts A, G, I, T, and W~~] promulgated as of July 1, 2018 [~~are~~ **is**] hereby incorporated by reference in this rule, as published by the Office of the Federal Register. Copies can be obtained from the U.S. Publishing Office Bookstore, 710 N. Capitol Street NW, Washington DC 20401. This rule does not incorporate any subsequent amendments or additions.
- (22) 40 CFR 60, Appendices A, B, [~~E,~~] and F [~~, and Subparts A, B, Cb, Cf, XXX, DDDD,~~

~~MMMM, and RRRR~~] promulgated as of July 1, 2018 are hereby incorporated by reference in this rule, as published by the Office of the Federal Register. Copies can be obtained from the U.S. Publishing Office Bookstore, 710 N. Capitol Street NW, Washington DC 20401. This rule does not incorporate any subsequent amendments or additions.

- (23) 40 CFR 61, Appendix B promulgated as of July 1, 2018 ~~[are]~~is hereby incorporated by reference in this rule, as published by the Office of the Federal Register. Copies can be obtained from the U.S. Publishing Office Bookstore, 710 N. Capitol Street NW, Washington DC 20401. This rule does not incorporate any subsequent amendments or additions.

*AUTHORITY: section 643.050 and 643.055, RSMo 2016. Original rule filed Aug. 16, 1977, effective Feb. 11, 1978. Amended: Filed Feb. 27, 1978, effective Dec. 11, 1978. Amended: Filed Sept. 14, 1978, effective April 12, 1979. Amended: Filed July 16, 1979, effective Feb. 11, 1980. Amended: Filed Dec. 10, 1979, effective April 11, 1980. Amended: Filed March 13, 1980, effective Sept. 12, 1980. Amended: Filed Feb. 14, 1984, effective July 12, 1984. Amended: Filed June 2, 1987, effective Nov. 23, 1987. Amended: Filed Sept. 1, 1987, effective Dec. 24, 1987. Amended: Filed Aug. 4, 1988, effective Nov. 24, 1988. Amended: Filed Feb. 4, 1991, effective Sept. 30, 1991. Amended: Filed Sept. 3, 1991, effective April 9, 1992. Amended: Filed April 15, 1996, effective Nov. 30, 1996. Amended: Filed April 14, 1998, effective Nov. 30, 1998. Amended: Filed July 6, 2005, effective Feb. 28, 2006. Amended: Filed April 13, 2018, effective Jan. 30, 2019. Amended: Filed March 15, 2019.*

*PUBLIC COST: This proposed amendment will not cost state agencies or political subdivisions more than five hundred dollars (\$500) in the aggregate.*

*PRIVATE COST: This proposed amendment will not cost private entities more than five hundred dollars (\$500) in the aggregate.*

*NOTICE OF PUBLIC HEARING AND NOTICE TO SUBMIT COMMENTS: A public hearing on this proposed amendment will begin at 9:00 a.m., May 30, 2019. The public hearing will be held at the Elm Street Conference Center, 1730 East Elm Street, Lower Level, Bennett Springs Conference Room, Jefferson City, Missouri. Opportunity to be heard at the hearing shall be afforded to any interested person. Interested persons, whether or not heard, may submit a statement of their views until 5:00 p.m., June 6, 2019. Send online comments via the proposed rules web page [www.dnr.mo.gov/proposed-rules](http://www.dnr.mo.gov/proposed-rules), email comments to [apcprulespn@dnr.mo.gov](mailto:apcprulespn@dnr.mo.gov), or written comments to Chief, Air Quality Planning Section, Missouri Department of Natural Resources' Air Pollution Control Program, PO Box 176, Jefferson City, MO 65102-0176.*

