



WEST VIRGINIA SECRETARY OF STATE

MAC WARNER

ADMINISTRATIVE LAW DIVISION

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Office of West Virginia
Secretary Of State

NOTICE OF PUBLIC COMMENT PERIOD

AGENCY: Air Quality

TITLE-SERIES: 45-08

RULE TYPE: Legislative Amendment to Existing Rule: Yes Repeal of existing rule: No

RULE NAME: Ambient Air Quality Standards

CITE STATUTORY AUTHORITY: W. Va. Code § 22-5-4

COMMENTS LIMITED TO:

Oral and Written

DATE OF PUBLIC HEARING: 07/06/2023 6:00 PM

LOCATION OF PUBLIC HEARING:

Virtual

DATE WRITTEN COMMENT PERIOD ENDS: 07/06/2023 5:00 PM

COMMENTS MAY BE MAILED OR EMAILED TO:

NAME: Laura Jennings

ADDRESS: WV Department of Environmental Protection - Division of Air Quality

601 57th Street, SE, Charleston, WV 25304

EMAIL: laura.m.jennings@wv.gov

PLEASE INDICATE IF THIS FILING INCLUDES:

RELEVANT FEDERAL STATUTES OR REGULATIONS: No

(IF YES, PLEASE UPLOAD IN THE SUPPORTING DOCUMENTS FIELD)

INCORPORATED BY REFERENCE: Yes

(IF YES, PLEASE UPLOAD IN THE SUPPORTING DOCUMENTS FIELD)

PROVIDE A BRIEF SUMMARY OF THE CONTENT OF THE RULE:

The rule establishes and adopts the ambient air quality standards in West Virginia for carbon monoxide, lead, nitrogen dioxide, ozone, particulate matter, and sulfur dioxide, equivalent to the national primary and secondary ambient air quality standards (NAAQS) established under §109 of the Clean Air Act and promulgated by the United States Environmental Protection Agency under 40 CFR Part 50. National primary ambient air quality standards define levels of air quality which the Administrator of the EPA judges are necessary, with an adequate margin of safety, to protect the public health. National secondary ambient air quality standards define levels of air quality which the Administrator of the EPA judges necessary to protect the public welfare from any known or anticipated adverse effects of a pollutant. The rule also incorporates by reference the ambient air monitoring reference methods and equivalent methods promulgated by the EPA under 40 CFR Part 53. These reference methods are used to determine attainment (or non-attainment) of the NAAQS. The purpose of this rule is for West Virginia to retain primacy of its air quality program and remain current with the federal counterpart regulations.

SUMMARIZE IN A CLEAR AND CONCISE MANNER CONTENTS OF CHANGES IN THE RULE AND A STATEMENT OF CIRCUMSTANCES REQUIRING THE RULE:

Summary of changes in the rule:

Revisions to the rule include the annual incorporation by reference (IBR) of 40 CFR Parts 50 and 53 promulgated by EPA as of June 1, 2023 by updating the IBR date in section 1.6 and the adoption of standards dates in sections 3.1 and 3.2. The rule numbering and text formats were revised to comport with 153CSR1. The three IBR updates are: (1) Ambient Air Monitoring Reference and Equivalent Methods; Designation of One New Equivalent Method. (2) Ambient Air Monitoring Reference and Equivalent Methods; Designation of One New Reference Method. (3) Testing Provisions for Air Emission Sources.

Statement of circumstances requiring the rule:

The incorporation by reference updates to this rule allow WV to retain primacy of its air quality programs and remain current with federal counterpart regulations. This rule is exempt from the Regulatory Moratorium of Executive Order 2-18 under condition 3(g), updating state rules to comply with federal law requirements.

Determination of Stringency:

Federal counterparts to the proposed rule are incorporated by reference; therefore, no determination of stringency is required.

Consultation with the Environmental Protection Advisory Council:

The Environmental Protection Advisory Council received a copy of this proposed rule in advance of the scheduled June 29, 2023 meeting.

SUMMARIZE IN A CLEAR AND CONCISE MANNER THE OVERALL ECONOMIC IMPACT OF THE PROPOSED RULE:

A. ECONOMIC IMPACT ON REVENUES OF STATE GOVERNMENT:

The proposed revisions to this rule should not impact revenues of state government.

B. ECONOMIC IMPACT ON SPECIAL REVENUE ACCOUNTS:

The proposed revisions to this rule should not impact special revenue accounts.

C. ECONOMIC IMPACT OF THE RULE ON THE STATE OR ITS RESIDENTS:

The proposed revisions to this rule should not impact costs of state government, nor should it have an economic impact on the state or its residents. The proposed revisions to this rule should have no additional impact on the cost of state government beyond that resulting from currently applicable federal requirements.

D. FISCAL NOTE DETAIL:

Effect of Proposal	Fiscal Year		
	2023 Increase/Decrease (use "-")	2024 Increase/Decrease (use "-")	Fiscal Year (Upon Full Implementation)
1. Estimated Total Cost	0	0	0
Personal Services	0	0	0
Current Expenses	0	0	0
Repairs and Alterations	0	0	0
Assets	0	0	0
Other	0	0	0
2. Estimated Total Revenues	0	0	0

E. EXPLANATION OF ABOVE ESTIMATES (INCLUDING LONG-RANGE EFFECT):

Annual revisions to this rule will not impact costs or revenues. In accordance with W. Va. Code §22-1A 3(c), the Secretary has determined that this rule will not result in a taking of private property within the meaning of the Constitutions of West Virginia and the United States of America.

BY CHOOSING 'YES', I ATTEST THAT THE PREVIOUS STATEMENT IS TRUE AND CORRECT.

Yes

Jason E Wandling -- By my signature, I certify that I am the person authorized to file legislative rules, in accordance with West Virginia Code §29A-3-11 and §39A-3-2.

**TITLE 45
LEGISLATIVE RULE
DEPARTMENT OF ENVIRONMENTAL PROTECTION
AIR QUALITY**

**SERIES 8
AMBIENT AIR QUALITY STANDARDS**

§45-8-1. General.

1.1. Scope. -- This rule establishes and adopts ambient air quality standards in West Virginia for carbon monoxide, lead, nitrogen dioxide, ozone, particulate matter, and sulfur dioxide, equivalent to the national primary and secondary ambient air quality standards established under Section 109 of the Clean Air Act and promulgated by the United States Environmental Protection Agency under 40 C.F.R. Part 50. National primary ambient air quality standards define levels of air quality which the Administrator judges are necessary, with an adequate margin of safety, to protect the public health. National secondary ambient air quality standards define levels of air quality which the Administrator judges necessary to protect the public welfare from any known or anticipated adverse effects of a pollutant. This rule also establishes and adopts ambient air monitoring reference methods and equivalent methods promulgated by the United States Environmental Protection Agency under 40 C.F.R. Part 53. The Secretary hereby adopts these standards and methods by reference. The Secretary also adopts the appendices to these standards and methods. These standards and methods are subject to revision, and additional primary and secondary standards may be promulgated as the Administrator deems necessary to protect the public health and welfare.

1.2. Authority. -- W.Va. Code § 22-5-4.

1.3. Filing Date. -- ~~April 1, 2022.~~

1.4. Effective Date. ~~April 1, 2022.~~

1.5. Sunset Provision. -- Does not apply.

1.6. Incorporation by Reference. -- Federal Counterpart Regulation. The Secretary has determined that a federal counterpart regulation exists, and in accordance with the Secretary's recommendation this rule incorporates by reference 40 C.F.R. Part 50, "National Primary and Secondary Ambient Air Quality Standards," and 40 C.F.R. Part 53, "Ambient Air Monitoring Reference and Equivalent Methods," effective June 1, ~~2021~~2023.

§45-8-2. Definitions.

2.1. "Administrator" means the Administrator of the United States Environmental Protection Agency or his or her authorized representative.

2.2. "Clean Air Act" ("CAA") means the federal Clean Air Act, as amended, 42 U.S.C. § 7401, et seq..

2.3. "Secretary" means the Secretary of the Department of Environmental Protection or other person to whom the Secretary has delegated authority or duties pursuant to W.Va. Code §§ 22-1-6 or 22-1-8.

2.4. Other words and phrases used in this rule, unless otherwise indicated, shall have the meaning ascribed to them in 40 C.F.R. § 50.1. Words and phrases not defined therein shall have the meaning given to them in the federal Clean Air Act.

§45-8-3. Adoption of standards.

3.1. The Secretary hereby adopts and incorporates by reference the national primary and secondary ambient air quality standards promulgated by the United States Environmental Protection Agency under 40 C.F.R. Part 50, effective June 1, ~~2021~~2023. These standards are adopted for the purpose of establishing ambient air quality standards in West Virginia that are equivalent to those established under Section 109 of the Clean Air Act, as amended.

3.2. The Secretary hereby adopts and incorporates by reference the ambient air monitoring reference methods and equivalent methods promulgated by the United States Environmental Protection Agency under 40 C.F.R. Part 53, effective June 1, ~~2021~~2023. These standards are adopted for the purpose of establishing ambient air monitoring reference methods and equivalent methods in West Virginia.

§45-8-4. Inconsistency between rules.

4.1. In the event of any inconsistency between this rule and any other rule of the Division of Air Quality, the inconsistency shall be resolved by the determination of the Secretary and the determination shall be based upon the application of the more stringent provision, term, condition, method, or rule.

Agency, Mail Code 28221T, 1200 Pennsylvania Ave. NW, Washington, DC 20460.

EPA's policy is that all comments received will be included in the public docket without change including any personal information provided, unless the comment includes profanity, threats, information claimed to be Confidential Business Information (CBI), or other information whose disclosure is restricted by statute.

Submit written comments and recommendations to OMB for the proposed information collection within 30 days of publication of this notice to www.reginfo.gov/public/do/PRAMain. Find this particular information collection by selecting "Currently under 30-day Review—Open for Public Comments" or by using the search function.

FOR FURTHER INFORMATION CONTACT:

Muntasir Ali, Sector Policies and Program Division (D243-05), Office of Air Quality Planning and Standards, U.S. Environmental Protection Agency, Research Triangle Park, North Carolina 27711; telephone number: (919) 541-0833; email address: ali.muntasir@epa.gov.

SUPPLEMENTARY INFORMATION:

Supporting documents, which explain in detail the information that the EPA will be collecting, are available in the public docket for this ICR. The docket can be viewed online at: <https://www.regulations.gov>, or in person, at the EPA Docket Center, WJC West Building, Room 3334, 1301 Constitution Ave. NW, Washington, DC. The telephone number for the Docket Center is 202-566-1744. For additional information about EPA's public docket, visit <http://www.epa.gov/dockets>.

Abstract: The New Source Performance Standards (NSPS) for Petroleum Dry Cleaners (40 CFR part 60, subpart JJJ) apply to the following existing and new facilities located at a petroleum dry cleaning plant with a total manufacturers' rated dryer capacity equal to or greater than 38 kilograms (84 pounds): Petroleum solvent dry cleaning dryers, washers, filters, stills, and settling tanks. In general, NSPS standards require initial notification reports, performance tests, and periodic reports by the owners/operators of the affected facilities. They are also required to maintain records of the occurrence and duration of any startup, shutdown, or malfunction in the operation of an affected facility, or any period during which the monitoring system is inoperative. These notifications, reports, and records are generally considered essential in determining compliance,

and are required of all affected facilities subject to NSPS. For this source category, only recordkeeping and initial notifications and reports are considered essential in determining compliance with 40 CFR part 60, subpart JJJ.

Form Numbers: None.

Respondents/affected entities: Petroleum dry cleaners.

Respondent's obligation to respond: Mandatory (40 CFR part 60, subpart JJJ).

Estimated number of respondents: 1 (total).

Frequency of response: Initially.

Total estimated burden: 90 hours (per year). Burden is defined at 5 CFR 1320.3(b).

Total estimated cost: \$11,000 (per year), which includes \$0 in annualized capital/startup and/or operation & maintenance costs.

Changes in the Estimates: There is a decrease in the burden in this ICR in comparison to the previous ICR. This decrease is not due to any program changes. There is a decrease in the total burden hours from the most-recently approved ICR because of a decrease in the number of sources subject to these standards. This ICR incorporates more accurate estimates of existing sources based on consultations with EPA's Office of Air Quality Planning and Standards and a review of affected facilities in the EPA's Enforcement and Compliance History Online (ECHO) database and reflects decline within the industry as dry cleaning facilities have moved to reduce use of petroleum solvents and incorporate newer technologies. The burden for this rule continues to apply only for one-time reporting requirements for new sources. This ICR reduces the number of new sources anticipated and conservatively estimates burden for one new affected facility per year. The overall result is a decrease in burden.

Courtney Kerwin,

Director, Regulatory Support Division.

[FR Doc. 2022-02621 Filed 2-7-22; 8:45 am]

BILLING CODE 6560-50-P

ENVIRONMENTAL PROTECTION AGENCY

[FRL-9422-01-ORD]

Ambient Air Monitoring Reference and Equivalent Methods; Designation of One New Reference Method

AGENCY: Environmental Protection Agency (EPA).

ACTION: Notice of the designation of a new reference method for monitoring ambient air quality.

SUMMARY: Notice is hereby given that the Environmental Protection Agency (EPA) has designated one new reference method for measuring concentrations of nitrogen dioxide (NO₂) in ambient air.

FOR FURTHER INFORMATION CONTACT:

Robert Vanderpool, Air Methods and Characterization Division (MD-D205-03), Center for Environmental Measurements and Modeling, U.S. EPA, Research Triangle Park, North Carolina 27711. Phone: 919-541-7877. Email: Vanderpool.Robert@epa.gov.

SUPPLEMENTARY INFORMATION: In accordance with regulations at 40 CFR part 53, the EPA evaluates various methods for monitoring the concentrations of those ambient air pollutants for which EPA has established National Ambient Air Quality Standards (NAAQS) as set forth in 40 CFR part 50. Monitoring methods that are determined to meet specific requirements for adequacy are designated by the EPA as either reference or equivalent methods (as applicable), thereby permitting their use under 40 CFR part 58 by States and other agencies for determining compliance with the NAAQS. A list of all reference or equivalent methods that have been previously designated by EPA may be found at <http://www.epa.gov/ttn/amt/criteria.html>.

The EPA hereby announces the designation of one new reference method for measuring concentrations of NO₂ in ambient air. This designation is made under the provisions of 40 CFR part 53, as amended on October 26, 2015 (80 FR 65291-65468).

The new reference method for NO₂ is an automated method (analyzer) utilizing the measurement principle based on gas phase chemiluminescence. This newly designated reference method is identified as follows:

RFNA-1221-259, "KENTEK Inc. Model MEZUS 210 NO₂ Analyzer," Chemiluminescence analyzer operated in a range of 0–0.5 ppm, with 0.45 µm, 47 mm diameter Teflon® filter installed, operated at temperatures between 20 °C and 30 °C, with nominal sampling flow rate of 800 cc/min, using a 5 minute averaging time, with either 105VAC–125VAC or 200VAC–240VAC input power options installed, 360-watt power consumption, equipped with 7 inch LCD touch screen display, and operated according to the KENTEK Inc. Model MEZUS 210 Nitrogen Oxide Analyzer Instruction Manual.

This application for a reference method determination for this NO₂ method was received by the Office of Research and Development on October 25, 2021. This analyzer is commercially

available from the applicant, KENTEK Inc., Hanshin S Meca room #526, 65 Techno 3-ro, Yuseong-gu, Daejeon, Republic of Korea, 34016.

A representative test analyzer was tested in accordance with the applicable test procedures specified in 40 CFR part 53, as amended on October 26, 2015. After reviewing the results of those tests and other information submitted by the applicant, EPA has determined, in accordance with part 53, that this method should be designated as a reference method.

As a designated reference method, this method is acceptable for use by states and other air monitoring agencies under the requirements of 40 CFR part 58, Ambient Air Quality Surveillance. For such purposes, this method must be used in strict accordance with the operation or instruction manual associated with the method and subject to any specifications and limitations (e.g., configuration or operational settings) specified in the designated method description (see the identification of the method above).

Use of the method also should be in general accordance with the guidance and recommendations of applicable sections of the "Quality Assurance Handbook for Air Pollution Measurement Systems, Volume I," EPA/600/R-94/038a and "Quality Assurance Handbook for Air Pollution Measurement Systems, Volume II, Ambient Air Quality Monitoring Program," EPA-454/B-13-003, (both available at <http://www.epa.gov/ttn/amtic/qalist.html>). Provisions concerning modification of such methods by users are specified under Section 2.8 (Modifications of Methods by Users) of Appendix C to 40 CFR part 58.

Consistent or repeated noncompliance with any of these conditions should be reported to: Director, Air Methods and Characterization Division (MD-D205-03), Center for Environmental Measurements and Modeling, U.S. Environmental Protection Agency, Research Triangle Park, North Carolina 27711.

Designation of this reference method is intended to assist the States in establishing and operating their air quality surveillance systems under 40 CFR part 58. Questions concerning the commercial availability or technical aspects of the method should be directed to the applicant.

Alice Gilliland,

Acting Director, Center for Environmental Measurements and Modeling.

[FR Doc. 2022-02569 Filed 2-7-22; 8:45 am]

BILLING CODE 5560-50-P

ENVIRONMENTAL PROTECTION AGENCY

[EPA-HQ-OPPT-2015-0744; FRL-9097-01-OCSPJ]

Agency Information Collection Activities; Proposed Renewal of Currently Approved Collection and Request for Comment; Notification of Substantial Risk of Injury to Health and the Environment Under the Toxic Substances Control Act (TSCA)

AGENCY: Environmental Protection Agency (EPA).

ACTION: Notice.

SUMMARY: In compliance with the Paperwork Reduction Act (PRA), this document announces the availability of and solicits public comment on the following Information Collection Request (ICR) that EPA is planning to submit to the Office of Management and Budget (OMB): "Notification of Substantial Risk of Injury to Health and the Environment under the Toxic Substances Control Act (TSCA)" and identified by EPA ICR No. 0794.17 and OMB Control No. 2070-0046. This ICR represents the renewal of an existing ICR that is currently approved through October 31, 2022. Before submitting the ICR to OMB for review and approval under the PRA, EPA is soliciting comments on specific aspects of the information collection activities and burden estimates that are summarized in this document. The ICR and accompanying material are available in the docket for public review and comment.

DATES: Comments must be received on or before April 11, 2022.

ADDRESSES: Submit your comments, identified by docket identification (ID) number EPA-HQ-OPPT-2015-0744, through the Federal eRulemaking Portal at <http://www.regulations.gov>. Follow the online instructions for submitting comments. Do not submit electronically any information you consider to be Confidential Business Information (CBI) or other information whose disclosure is restricted by statute. Additional instructions on commenting or visiting the docket, along with more information about dockets generally, is available at <http://www.epa.gov/dockets>.

Due to the public health concerns related to COVID-19, the EPA Docket Center (EPA/DC) and Reading Room is opened to visitors by appointment only. For the latest status information on EPA/DC and docket access, visit <https://www.epa.gov/dockets>.

FOR FURTHER INFORMATION CONTACT:

Katherine Sleasman, Regulatory Support

Branch (7101M), Office of Chemical Safety and Pollution Prevention, Environmental Protection Agency, 1200 Pennsylvania Ave. NW, Washington, DC 20460-0001; telephone number: (202) 566-1204; email address: sleasman.katherine@epa.gov.

For general information contact: The TSCA-Hotline, ABVI-Goodwill, 422 South Clinton Ave., Rochester, NY 14620; telephone number: (202) 554-1404; email address: TSCA-Hotline@epa.gov.

SUPPLEMENTARY INFORMATION:

I. What information is EPA particularly interested in?

Pursuant to PRA section 3506(c)(2)(A) (44 U.S.C. 3506(c)(2)(A)), EPA specifically solicits comments and information to enable it to:

1. Evaluate whether the proposed collection of information is necessary for the proper performance of the functions of the Agency, including whether the information will have practical utility.

2. Evaluate the accuracy of the Agency's estimates of the burden of the proposed collection of information, including the validity of the methodology and assumptions used.

3. Enhance the quality, utility, and clarity of the information to be collected.

4. Minimize the burden of the collection of information on those who are to respond, including through the use of appropriate automated electronic, mechanical, or other technological collection techniques or other forms of information technology, e.g., permitting electronic submission of responses. In particular, EPA is requesting comments from very small businesses (those that employ less than 25) on examples of specific additional efforts that EPA could make to reduce the paperwork burden for very small businesses affected by this collection.

II. What information collection activity or ICR does this action apply to?

Title: TSCA Notification of Substantial Risk of Injury to Health and the Environment (TSCA Section 8(e)).

EPA ICR No.: 0794.17.

OMB Control No.: 2070-0046.

ICR status: This ICR is currently approved through October 31, 2022. Under the PRA, an agency may not conduct or sponsor, and a person is not required to respond to, a collection of information, unless it displays a currently valid OMB control number. The OMB control numbers for EPA's regulations in title 40 of the Code of Federal Regulations (CFR), after

EIS No. 20220153, Draft, FERC, NC, Southside Reliability Enhancement Project, Comment Period Ends: 12/12/2022, Contact: Office of External Affairs 866-208-3372.

EIS No. 20220154, Draft Supplement, USFS, ID, Stibnite Gold Project, Comment Period Ends: 01/10/2023, Contact: Brian Harris 208-634-0784.

EIS No. 20220155, Final, BOEM, AK, Outer Continental Shelf (OCS) Alaska Region, Cook Inlet Planning Area, Oil and Gas Lease Sale 258, Review Period Ends: 11/28/2022, Contact: Casey Rowe 907-312-3788.

EIS No. 20220156, Draft, BOEM, CA, Programmatic Environmental Impact Statement for Oil and Gas Decommissioning Activities on the Pacific Outer Continental Shelf, Comment Period Ends: 12/12/2022, Contact: Richard Yarde 805-384-6379.

Amended Notice

EIS No. 20220086, Draft Supplement, NMFS, WA, The Makah Tribe Request to Hunt Gray Whales, Comment Period Ends: 11/03/2022, Contact: Grace Ferrara 206-526-6172. Revision to FR Notice Published 08/12/2022; Extending the Comment Period from 10/14/2022 to 11/03/2022.

EIS No. 20220122, Draft, CHSRA, CA, California High-Speed Rail Authority Palmdale to Burbank Project Section: Draft Environmental Impact Report/Environmental Impact Statement, Comment Period Ends: 12/01/2022, Contact: Scott Rothenberg 916-403-6936. Revision to FR Notice Published 09/02/2022; Extending the Comment Period from 11/01/2022 to 12/01/2022.

Dated: October 24, 2022.

Julie Roemele,

Acting Director, NEPA Compliance Division, Office of Federal Activities.

[FR Doc. 2022-23500 Filed 10-27-22; 8:45 am]

BILLING CODE 6560-50-P

ENVIRONMENTAL PROTECTION AGENCY

[FRL-10263-01-ORD]

Ambient Air Monitoring Reference and Equivalent Methods; Designation of One New Equivalent Method

AGENCY: Environmental Protection Agency (EPA).

ACTION: Notice of the designation of a new equivalent method for monitoring ambient air quality.

SUMMARY: Notice is hereby given that the Environmental Protection Agency

(EPA) has designated one new equivalent method for measuring concentrations of Particulate Matter in the 2.5-micron range (PM_{2.5}) in ambient air.

FOR FURTHER INFORMATION CONTACT:

Robert Vanderpool, Air Methods and Characterization Division (MD-D205-03), Center for Environmental Measurements and Modeling, U.S. EPA, Research Triangle Park, North Carolina 27711. Phone: 919-541-7877. Email: Vanderpool.Robert@epa.gov.

SUPPLEMENTARY INFORMATION: In accordance with regulations at 40 CFR part 53, the EPA evaluates various methods for monitoring the concentrations of those ambient air pollutants for which EPA has established National Ambient Air Quality Standards (NAAQS) as set forth in 40 CFR part 50. Monitoring methods that are determined to meet specific requirements for adequacy are designated by the EPA as either reference or equivalent methods (as applicable), thereby permitting their use under 40 CFR part 58 by States and other agencies for determining compliance with the NAAQS. A list of all reference or equivalent methods that have been previously designated by EPA may be found at <http://www.epa.gov/ttn/amtic/criteria.html>.

The EPA hereby announces the designation of one new equivalent method for measuring concentrations of Particulate Matter in the 2.5-micron range (PM_{2.5}) in ambient air. This designation is made under the provisions of 40 CFR part 53, as amended on October 26, 2015 (80 FR 65291-65468).

The new equivalent method for PM_{2.5} is an automated method (analyzer) utilizing an optically based measurement principle. This newly designated equivalent method is identified as follows:

EQPM-0922-260 "Ambilabs Model 2WIN PM_{2.5} FEM Monitor" Optically based continuous ambient particulate analyzer operated at a volumetric flow rate of 2 Lpm, equipped with Ambilabs omnidirectional sampling inlet (P/N: M9003011), an Ambilabs 2 Lpm sharp cut cyclone inlet (P/N: A001025), and an Ambilabs ambient temperature sensor (P/N: AL-2WIN-TEMP) configured for operation with firmware version 1.36 or later, and operated in accordance with the Ambilabs 2WIN operations manual. The 2WIN PM_{2.5} FEM Monitor is set for red and blue scattering coefficients and the internal sample conditioning must be set for an RH < 35%. The Monitor can be operated either outside in an Ambilabs

environmental enclosure (P/N: Neph Shelter) or as tabletop or wall mount in an AC controlled shelter. This designation applies to PM_{2.5} measurements only.

This application for an equivalent method determination for this PM_{2.5} method was received by the Office of Research and Development on July 12, 2022. This analyzer is commercially available from the applicant, Ambilabs, 100 Elm Street, Warren, RI 02885.

A representative test analyzer was tested in accordance with the applicable test procedures specified in 40 CFR part 53, as amended on October 26, 2015. After reviewing the results of those tests and other information submitted by the applicant, EPA has determined, in accordance with part 53, that this method should be designated as an equivalent method.

As a designated equivalent method, this method is acceptable for use by states and other air monitoring agencies under the requirements of 40 CFR part 58, Ambient Air Quality Surveillance. For such purposes, this method must be used in strict accordance with the operation or instruction manual associated with the method and subject to any specifications and limitations (e.g., configuration or operational settings) specified in the designated method description (see the identification of the method above).

Use of the method also should be in general accordance with the guidance and recommendations of applicable sections of the "Quality Assurance Handbook for Air Pollution Measurement Systems, Volume I," EPA/600/R-94/038a and "Quality Assurance Handbook for Air Pollution Measurement Systems, Volume II, Ambient Air Quality Monitoring Program," EPA-454/B-13-003, (both available at <http://www.epa.gov/ttn/amtic/qalist.html>). Provisions concerning modification of such methods by users are specified under Section 2.8 (Modifications of Methods by Users) of Appendix C to 40 CFR part 58.

Consistent or repeated noncompliance with any of these conditions should be reported to: Director, Air Methods and Characterization Division (MD-D205-03), Center for Environmental Measurements and Modeling, U.S. Environmental Protection Agency, Research Triangle Park, North Carolina 27711.

Designation of this equivalent method is intended to assist the States in establishing and operating their air quality surveillance systems under 40 CFR part 58. Questions concerning the commercial availability or technical

aspects of the method should be directed to the applicant.

Alice Gilliland,

Director (Acting), Center for Environmental Measurements and Modeling.

[FR Doc. 2022–23524 Filed 10–27–22; 8:45 am]

BILLING CODE 6560–50–P

FEDERAL COMMUNICATIONS COMMISSION

[OMB 3060–XXXX; FR ID 111329]

Information Collection Being Submitted for Review and Approval to Office of Management and Budget

AGENCY: Federal Communications Commission.

ACTION: Notice and request for comments.

SUMMARY: As part of its continuing effort to reduce paperwork burdens, as required by the Paperwork Reduction Act (PRA) of 1995, the Federal Communications Commission (FCC or the Commission) invites the general public and other Federal Agencies to take this opportunity to comment on the following information collection. Pursuant to the Small Business Paperwork Relief Act of 2002, the FCC seeks specific comment on how it might “further reduce the information collection burden for small business concerns with fewer than 25 employees.” The Commission may not conduct or sponsor a collection of information unless it displays a currently valid Office of Management and Budget (OMB) control number. No person shall be subject to any penalty for failing to comply with a collection of information subject to the PRA that does not display a valid OMB control number.

DATES: Written comments and recommendations for the proposed information collection should be submitted on or before December 1, 2022.

ADDRESSES: Comments should be sent to www.reginfo.gov/public/do/PRAMain. Find this particular information collection by selecting “Currently under 30-day Review—Open for Public Comments” or by using the search function. Your comment must be submitted into www.reginfo.gov per the above instructions for it to be considered. In addition to submitting in www.reginfo.gov also send a copy of your comment on the proposed information collection to Nicole Ongele, FCC, via email to PRA@fcc.gov and to Nicole.Ongele@fcc.gov. Include in the

comments the OMB control number as shown in the **SUPPLEMENTARY INFORMATION** below.

FOR FURTHER INFORMATION CONTACT: For additional information or copies of the information collection, contact Nicole Ongele at (202) 418–2991. To view a copy of this information collection request (ICR) submitted to OMB: (1) go to the web page <http://www.reginfo.gov/public/do/PRAMain>, (2) look for the section of the web page called “Currently Under Review,” (3) click on the downward-pointing arrow in the “Select Agency” box below the “Currently Under Review” heading, (4) select “Federal Communications Commission” from the list of agencies presented in the “Select Agency” box, (5) click the “Submit” button to the right of the “Select Agency” box, (6) when the list of FCC ICRs currently under review appears, look for the Title of this ICR and then click on the ICR Reference Number. A copy of the FCC submission to OMB will be displayed.

SUPPLEMENTARY INFORMATION: As part of its continuing effort to reduce paperwork burdens, as required by the Paperwork Reduction Act (PRA) of 1995 (44 U.S.C. 3501–3520), the FCC invited the general public and other Federal Agencies to take this opportunity to comment on the following information collection. Comments are requested concerning: (a) Whether the proposed collection of information is necessary for the proper performance of the functions of the Commission, including whether the information shall have practical utility; (b) the accuracy of the Commission’s burden estimates; (c) ways to enhance the quality, utility, and clarity of the information collected; and (d) ways to minimize the burden of the collection of information on the respondents, including the use of automated collection techniques or other forms of information technology. Pursuant to the Small Business Paperwork Relief Act of 2002, Public Law 107–198, see 44 U.S.C. 3506(c)(4), the FCC seeks specific comment on how it might “further reduce the information collection burden for small business concerns with fewer than 25 employees.”

OMB Control Number: 3060–XXXX.

Title: Performance Evaluation of Numbering Administration Vendor(s).

Form Number: N/A.

Type of Review: New information collection.

Respondents: Business or other for-profit entities, Not-for-profit entities, and State, Local and Tribal Governments.

Number of Respondents and Responses: 6,161 respondents and 6,161 responses.

Estimated Time per Response: 0.25 hours.

Frequency of Response: Annual reporting requirement.

Obligation to Respond: Voluntary.

Total Annual Burden: 1,540 hours.

Total Annual Cost: No cost.

Privacy Impact Assessment:

Personally identifiable information (PII) in the form of business contact information will be collected and maintained in accordance with the FCC–2, Business Contacts and Certifications, System of Records Notice (SORN), posted at <https://www.fcc.gov/managing-director/privacy-transparency/privacy-act-information>. There is no intention by the Numbering Administration Oversight Working Group (NAOWG), North American Numbering Council (NANC), or the Commission to make this business contact information publicly available.

Nature and Extent of Confidentiality: Participants must share their business contact information to respond to the survey. This information will be protected as described in the FCC–2, Business Contacts and Certifications SORN, posted at <https://www.fcc.gov/managing-director/privacy-transparency/privacy-act-information>. Participation in each survey is voluntary and any participant can decline to participate at any time.

Needs and Uses: The Commission is requesting Office of Management and Budget (OMB) approval for this new information collection. This collection of information is an annual performance satisfaction survey of its vendor(s) acting as administrators for various telephone number management functions.

These functions may be performed by one or multiple vendors under one or multiple contracts. The vendor(s) act pursuant to their contract(s) with the Federal Communications Commission (FCC) and the FCC’s numbering rules. See 47 CFR 52.1 *et seq.*

The survey will be designed and administered by the Numbering Administration Oversight Working Group (NAOWG) of the North American Numbering Council (NANC). The NANC is a Federal Advisory Committee established under the Federal Advisory Committee Act. The NANC advises the FCC and makes recommendations, reached through consensus, that foster efficient and impartial number administration. The NANC is composed of representatives of telecommunications carriers, regulators, cable providers, Voice Over Internet

13, 2023. The safety zone will be enforced for all navigable waters of the Lower Mississippi River, New Orleans, LA from MM 94 to MM 95. In the event of inclement weather, the safety zone will be enforced from 7:30 to 8:45 p.m. on April 14, 2023. During the enforcement period, as reflected in § 165.845 paragraphs (a) through (d), entry into this zone is prohibited to all vessels and persons except vessels authorized by the COTP or designated representative. A designated representative means any Coast Guard commissioned, warrant, or petty officer of the U.S. Coast Guard assigned to units under the operational control of Sector New Orleans. Persons and vessels requiring entry into this safety zone must request permission from the COTP or a designated representative. They may be contacted on VHF-FM Channel 16 or 67 or by telephone at (504) 365-2545. Persons and vessels permitted to enter this safety zone must transit at their slowest safe speed and comply with all lawful directions issued by the COTP or the designated representative.

In addition to this notification of enforcement in the **Federal Register**, the Coast Guard plans to provide notification of this enforcement period via Marine Safety Information Bulletin and Broadcast Notice to Mariners.

Dated: March 22, 2023.

K.K. Denning,

Captain, U.S. Coast Guard, Captain of the Port Sector New Orleans.

[FR Doc. 2023-06460 Filed 3-28-23; 8:45 am]

BILLING CODE 9110-04-P

ENVIRONMENTAL PROTECTION AGENCY

40 CFR Parts 51, 60, and 63

[EPA-HQ-OAR-2020-0556; FRL-8335-02-OAR]

RIN 2060-AV35

Testing Provisions for Air Emission Sources

AGENCY: Environmental Protection Agency (EPA).

ACTION: Final rule.

SUMMARY: This action promulgates corrections and updates to regulations for source testing of emissions under various rules. This final rule includes corrections to typographical and technical errors, updates to outdated procedures, and revisions to add clarity and consistency with other monitoring requirements. The revisions will improve the quality of data but will not

impose new substantive requirements on source owners or operators.

DATES: This rule is effective on May 30, 2023. The incorporation by reference of certain material listed in the rule is approved by the Director of the Federal Register on May 30, 2023. The incorporation by reference of certain other material listed in the rule was approved by the Director of the Federal Register as of March 18, 2008, April 16, 2012, and May 15, 2015.

ADDRESSES: The EPA has established a docket for this action under Docket ID No. EPA-HQ-OAR-2020-0556. All documents in the docket are listed on the www.regulations.gov website. Although listed in the index, some information is not publicly available, e.g., confidential business information or other information whose disclosure is restricted by statute. Certain other material, such as copyrighted material, is not placed on the internet and will be publicly available only in hard copy. Publicly available docket materials are available electronically through www.regulations.gov.

FOR FURTHER INFORMATION CONTACT: Mrs. Lula H. Melton, Office of Air Quality Planning and Standards, Air Quality Assessment Division (E143-02), Environmental Protection Agency, Research Triangle Park, NC 27711; telephone number: (919) 541-2910; fax number: (919) 541-0516; email address: melton.lula@epa.gov.

SUPPLEMENTARY INFORMATION: The supplementary information in this preamble is organized as follows:

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 - J. Executive Order 12898: Federal Actions To Address Environmental Justice in Minority Populations and Low-Income Populations
 - K. Congressional Review Act (CRA)

I. General Information

A. Does this action apply to me?

The amendments promulgated in this final rule apply to industries that are subject to the current provisions of 40 CFR parts 51, 60, and 63. We did not list all the specific affected industries or their North American Industry Classification System (NAICS) codes herein since there are many affected

sources in numerous NAICS categories. If you have any questions regarding the applicability of this action to a particular entity, consult either the air permitting authority for the entity or your EPA Regional representative as listed in 40 CFR 63.13.

B. What action is the agency taking?

We are promulgating corrections and revisions to source test methods, performance specifications (PS), and associated regulations. The revisions correct typographical and technical errors, provide updates to testing procedures, and add clarity and consistency among monitoring requirements.

C. Judicial Review

Under section 307(b)(1) of the Clean Air Act (CAA), judicial review of this final rule is available by filing a petition for review in the United States Court of Appeals for the District of Columbia Circuit by May 30, 2023. Under section 307(d)(7)(B) of the CAA, only an objection to this final rule that was raised with reasonable specificity during the period for public comment can be raised during judicial review. Moreover, under section 307(b)(2) of the CAA, the requirements that are the subject of this final rule may not be challenged later in civil or criminal proceedings brought by the EPA to enforce these requirements.

II. Background

The EPA catalogs errors and corrections, as well as necessary revisions to test methods, performance specifications, and associated regulations in 40 CFR parts 51, 60, and 63 and periodically updates and revises these provisions. The most recent updates and revisions were proposed on April 26, 2022 (87 FR 24488). The public comment period for the present proposed revisions ended June 27, 2022, and 11 comment letters were received from the public. This final rule was developed based on public comments that the agency received on the proposed rule.

III. Incorporation by Reference

The EPA is incorporating by reference two ASTM International (ASTM) standards. Specifically, the EPA has incorporated ASTM D6216–20, which covers the procedure for certifying continuous opacity monitors and includes design and performance specifications, test procedures, and quality assurance (QA) requirements to ensure that continuous opacity monitors meet minimum design and calibration requirements necessary for accurate

opacity monitoring measurements in regulatory environmental opacity monitoring applications subject to 10 percent or higher opacity standards. The EPA also updated the incorporation by reference for ASTM D6784, a test method for elemental, oxidized, particle-bound, and total mercury in emissions from stationary sources, from the 2002 version to the 2016 version. This update applies to incorporations by reference in 40 CFR part 60, appendix B, Performance Specification 12A for continuous monitoring of mercury emissions. The EPA updated the incorporations by reference in 40 CFR part 63 for use of ASTM D6784 under table 5 and appendix A of Subpart UUUUU, for mercury emissions measurement and monitoring. Both the ASTM D6216–20 and ASTM D6784–16 standards were developed and adopted by the ASTM International. The ASTM standards may be obtained from www.astm.org or from the ASTM at 100 Barr Harbor Drive, P.O. Box C700, West Conshohocken, PA 19428–2959.

The EPA also is incorporating by reference the Standard Methods Committee Method 5210 Biochemical Oxygen Demand (BOD) from “Standard Methods for the Examination of Waste and Wastewater.” This standard is acceptable as an alternative to method 405.1 and is available from the Standards Method Committee at www.standardmethods.org or by telephone at (844) 232–3707.

The EPA also made specific modifications to requirements in an existing incorporation by reference, the ASTM E2515–11 test method. The stipulations modify the post-test leak check procedures as well as add procedures for performing leak checks during a sampling run.

The following standards are already currently incorporated in the location where they appear in the rule: ANSI/ASME PTC 19.10–1981, ASTM–D6348–03, ASTM–D6348–03(R2010), ASTM–D6522–00 (2005).

IV. Summary of Amendments

A. Method 201A of Appendix M of Part 51

In method 201A, the erroneous equation 25 in section 12.5 is corrected.

B. General Provisions (Subpart A) of Part 60

In the General Provisions of part 60, § 60.17(h) is revised to add ASTM D6216–20 and D6784–16 to the list of incorporations by reference and to renumber the remaining consensus standards that are incorporated by reference in alpha-numeric order.

C. Standards of Performance for New Residential Wood Heaters (Subpart AAA) of Part 60

Subpart AAA is amended to add stipulations for use of the ASTM E2515–11 test method. The stipulations modify the post-test leak check procedures as well as add procedures for performing leak checks during a sampling run. The stipulations to ASTM E2515–11 are necessary as we have learned that the quality assurance/quality control (QA/QC) requirements for leak tests required by ASTM E2515–11, section 9.6.5.1 are not sufficient to provide assurance of the sampling system integrity. Additionally, the language of ASTM E2515–11, section 9.6.5.1 currently allows for averaging the particulate matter (PM) results from a non-leaking sampling system with those from a leaking sampling system, which effectively reduces reported PM emissions by as much as half, rendering the test method inappropriate for compliance determination.

We revised the language in § 60.534(c) and developed new language to replace ASTM E2515–11, section 9.6.5.1 by adding § 60.534(c)(1), which specifies appropriate post-test leak check procedures and in § 60.534(c)(2) by adding procedures for performing leak checks during a sampling run. These modifications bring appropriate QA/QC requirements to PM measurements required by the rule and eliminate opportunity for emissions test results to be considered valid when a leaking sampling system allows dilution of the PM sample(s). This language was amended slightly based on comments received to further clarify that sample volume collected during the process of conducting leak checks during a test run is not to be included in the overall sampling volume as it would dilute the collected sample volume were it treated in that manner.

In § 60.534(d), the first hour PM emissions measurements are to be conducted using a separate ASTM E2515–11 sampling train operated concurrently with the paired ASTM E2515–11 sampling trains used in compliance PM sampling. In this manner, the first hour PM emissions will be collected appropriately, and the compliance test measurements will not be impacted by a sampling pause for filter replacement at the 1-hour mark.

The regulatory language in § 60.539b(b) is revised to include General Provisions that were added to § 60.8(f)(2) (81 FR 59801, August 30, 2016) and were inadvertently exempted from inclusion in subpart AAA as that rule, as promulgated in 2015, exempted

§ 60.8(f) in its entirety. The exemption promulgated in subpart AAA at § 60.539b(b) was intended to exempt those affected sources from § 60.8(f), which, at the time, consisted of what is now currently § 60.8(f)(1) and is specific to compliance testing results consisting of the arithmetic mean of three replicate tests. These modifications will ensure that emissions test reporting includes all data necessary to assess and assure the quality of the reported emissions data and appropriately describes and identifies the specific unit covered by the emissions test report. Since compliance tests in this category consist of a single test, the original regulatory exemption to the General Provisions of § 60.8(f)(1) is retained.

D. Standards of Performance for New Residential Wood Heaters, New Residential Hydronic Heaters, and Forced-Air Furnaces (Subpart QQQQ) of Part 60

The erroneous PM emission limits in g/MJ in § 60.5474(b)(2), (3) and (6) are corrected.

In addition, subpart QQQQ is amended to add stipulations for use of the ASTM E2515–11 test method. The stipulations modify the post-test leak check procedures as well as add procedures for performing leak checks during a sampling run. The stipulations to ASTM E2515–11 are necessary as we have learned that the QA/QC requirements for leak tests required by ASTM E2515–11, section 9.6.5.1 are not sufficient to provide assurance of the sampling system integrity. Additionally, the language of ASTM E2515–11, section 9.6.5.1 currently allows for averaging the PM results from a non-leaking sampling system with those from a leaking sampling system, which effectively reduces reported PM emissions by as much as half, rendering the test method inappropriate for compliance determination. The language in § 60.5476(c)(5) and (6) is removed and the paragraphs are reserved.

We revised the language in § 60.5476(f) and developed new language to replace ASTM E2515–11, section 9.6.5.1 by adding § 60.5476(f)(1), which specifies appropriate post-test leak check procedures and in § 60.5476(f)(2) by adding procedures for performing leak checks during a sampling run. These modifications bring appropriate QA/QC requirements to PM measurements required by the rule and eliminate opportunity for emissions test results to be considered valid when a leaking sampling system allows dilution of the PM sample(s). This language was amended slightly based on comments

received to further clarify that sample volume collected during the process of conducting leak checks during a test run should not be included in the overall sampling volume as it would dilute the collected sample volume were it treated in that manner.

In § 60.5476(f), we are also requiring that first hour PM emissions measurements be conducted using a separate ASTM E2515–11 sampling train operated concurrently with the paired ASTM E2515–11 sampling trains used in compliance PM sampling. In this manner, the first hour PM emissions will be collected appropriately, and the compliance test measurements will not be impacted by a sampling pause for filter replacement at the one-hour mark. In § 60.5476(f), we incorporated language about filter type and size acceptance currently in § 60.5476(c)(5). Additionally, we removed language relating to EN 303–5 currently found in § 60.5476(f).

The regulatory language in § 60.5483(b) is revised to include General Provisions that were added to § 60.8(f)(2) (81 FR 59801, August 30, 2016) and were inadvertently exempted from subpart QQQQ as that rule, as promulgated in 2015, exempted § 60.8(f) in its entirety. The exemption promulgated in subpart QQQQ at § 60.5483(b) was intended for those affected sources subject to § 60.8(f), which, at the time, consisted of what is currently § 60.8(f)(1) and is specific to compliance testing results consisting of the arithmetic mean of three replicate tests. These modifications ensure that emissions test reporting includes all data necessary to assess and assure the quality of the reported emissions data and appropriately describes and identifies the specific unit covered by the emissions test report. Since compliance tests in this category consist of a single test, the original regulatory exemption to the General Provisions of § 60.8(f)(1) is retained.

In subpart QQQQ, in method 28WHH, in section 13.8, the erroneous CO calculation instructions for equation 23 are corrected to include the summation of CO emissions over four test categories instead of three.

E. Method 1 of Appendix A–1 of Part 60

In method 1, the heading in section 11.5.1 is moved to 11.5, and the word “procedure” is moved to the first sentence in section 11.5.1 for clarity. Section 11.5.2 is revised to clearly specify the number of traverse points that must be used for sampling and velocity measurements once a directional flow-sensing probe procedure has been used to demonstrate

that an alternative measurement site is acceptable. The last sentence of section 11.5.2, which appears unclear as to what “same traverse point number and locations” it is referring, is revised to instead specify the “same minimum of 40 traverse points for circular ducts and 42 points for rectangular ducts” that are used in the alternative measurement procedure of section 11.5.3.

Also, table 1–2 is revised to correct the erroneous requirement that calls for 99.9 percent of stack diameter from the inside wall to the traverse point to 98.9 percent.

F. Method 4 of Appendix A–3 of Part 60

In method 4, table 4–3 is formatted correctly.

G. Method 7 of Appendix A–4 of Part 60

In method 7, section 10.1.3 is revised to change the word “should” to “shall” in the last sentence because the difference between the calculated concentration values and the actual concentrations are required to be less than 7 percent for all standards.

H. Method 19 of Appendix A–7 of Part 60

In method 19, the erroneous equation 19–5 is corrected.

I. Method 25 of Appendix A–7 of Part 60

In method 25, a record and report section (section 12.9) was added to confirm that the quality control (QC) is successfully performed. Also, the erroneous figure 25–6 is corrected.

J. Method 25C of Appendix A–7 of Part 60

In method 25C, in response to a comment, the first sentence in section 9.1 is corrected to read, “If the 3-year average annual rainfall is greater than 20 inches, verify that landfill gas sample contains less than 20 percent N₂ or 5 percent O₂.” Also, the nomenclature in section 12.1 for C_{N2} and C_{mN2} is revised to provide clarity. More specifically, C_{N2} is changed from “N₂ concentration in the diluted sample gas” to “N₂ concentration in the landfill gas sample,” and the C_{mN2} is changed from “Measured N₂ concentration, fraction in landfill gas” to “Measured N₂ concentration, diluted landfill gas sample.”

K. Method 26 of Appendix A–8 of Part 60

In method 26, erroneous equations 26–4 and 26–5 in sections 12.4 and 12.5, respectively, are revised to be consistent with the nomenclature in section 12.1.

L. Performance Specification 1 of Appendix B of Part 60

In Performance Specification 1, references to ASTM D6216–12 (in sections 2.1, 3.1, 6.1, 8.1(1), (2)(iii), and (3)(ii), 8.2(1) through (3), 9.0, 12.1, 13.1, 13.2, and 16.0, reference 8) are replaced with ASTM D6216–20. Note: If the initial certification of the continuous opacity monitoring system (COMS) has already occurred using D6216–98, D6216–03, D6216–07, or D6216–12, it will not be necessary to recertify using D6216–20.

Also, in Performance Specification 1, section 8.1(2)(iii) is revised by removing the next to the last sentence, which reads, “The opacities of the two locations or paths may be measured at different times but must represent the same process operating conditions,” because the statement is confusing and unclear; furthermore, it is unlikely that one would achieve the same conditions at two different times.

M. Performance Specification 2 of Appendix B of Part 60

In Performance Specification 2, in section 8.3.3, a sentence is added to clarify that during a calibration, the reference gas is to be introduced into the sampling system prior to any sample conditioning or filtration equipment and must pass through as much of the probe as is practical. In section 12.5, minor revisions are made to clarify that relative accuracy (RA) test results are expressed as a percent of emission rate or concentration (units of the applicable standard) and the definition of the average reference method (RM) value for Equation 2–6.

N. Performance Specification 4B of Appendix B of Part 60

The entire Performance Specification 4B is updated to the Environmental Monitoring Management Council (EMMC) methods format used for all other performance specifications. In response to comment, some of the references to other sections are replaced with text.

O. Performance Specification 6 of Appendix B of Part 60

In Performance Specification 6, section 13.2 is revised to specifically state the relative accuracy criteria including significant figures. On October 7, 2020 (85 FR 63394), we revised section 13.2 of Performance Specification 6 to make the relative accuracy calculations and criteria consistent with Performance Specification 2 and offer an alternate calculation and criterion for low emission concentration/rate situations;

however, we neglected to specifically cite the alternate relative accuracy criterion from Performance Specification 2 for low emission sources and to ensure consistency with Performance Specification 2 with regard to significant figures in the relative accuracy criteria. In response to comment, we are adding “you may elect to” to the last sentence in section 13.2 to clarify that the 10% RA is an option as opposed to a requirement.

P. Performance Specification 12A of Appendix B of Part 60

We are revising the references (in sections 8.4.2, 8.4.4, 8.4.5, 8.4.6.1, and 17.5 and the footnote to Figure 12A–3) to ASTM D6784, Standard Test Method for Elemental, Oxidized, Particle-Bound and Total Mercury in Flue Gas Generated from Coal-Fired Stationary Sources (Ontario Hydro Method), to update them from the 2002 version to the latest version, which was authorized in 2016.

The capabilities of mercury CEMS have improved since initial deployment to support regulations over a decade ago. Therefore, we are revising section 13.3 to modify the alternative relative accuracy criterion such that: (1) it applies only at mercury concentrations less than 2.5 µg/scm and (2) the difference between the average reference method and CEMS values added to the confidence coefficient is now 0.5 µg/scm. This revised criterion is consistent with revisions that we made to the mercury monitoring requirements in 40 CFR part 63, subpart UUUUU (81 FR 20172, April 6, 2016).

Q. Performance Specification 16 of Appendix B of Part 60

In Performance Specification 16, several corrections and modifications are made to clarify the intent of the requirements. In section 1.1, the language is revised to make it clear that if a PEMS (predictive emission monitoring system) contains a diluent component, then the diluent component must be tested as well. Also, in section 1.1, the language referring to PS–17 is removed because PS–17 was not promulgated.

In sections 3.11 and 3.12, language is added to define commonly used acronyms, and in section 3.12, the language is corrected to indicate that the relative accuracy test audit (RATA) is to be conducted as specified in section 8.2.

In section 9.1, the QA/QC Summary chart is corrected to reflect the language found in section 2.2, which indicates that the relative accuracy audit (RAA) is required on all PEMS and not just those classified as compliance PEMS. The

QA/QC Summary Chart is also modified to align the criteria for a RAA with that found in section 13.5.

In section 9.4, we proposed to correct the language stating a RATA is to be conducted at the normal operating level to indicate the RATA is to be conducted as specified in section 8.2. Also in section 9.4, we proposed to remove the statement that the statistical tests in section 8.3 are not required for the yearly RATA. However, based on public comment, we are not making any revisions to section 9.4 at this time.

In section 12.3.2, we proposed to remove the alternative criteria language because it does not apply to F-factor determinations. However, based on public comment, we have decided not to make changes to section 12.3.2 at this time.

In sections 13.1 and 13.5, the language is modified to add the corresponding alternative criteria in units of lb/mmBtu. Although, we did not propose a change in the criteria for applying the 2 ppm difference in the proposed rule, we agree with a public comment that the 20 ppm criteria in section 13.5 should be the same as the 10 ppm criteria in section 13.1, so section 13.5 is revised to reflect this.

R. Procedure 1 of Appendix F of Part 60

In Procedure 1, in section 4.1, a sentence is added to clarify that during a calibration, the reference gas is to be introduced into the sampling system prior to any sample conditioning or filtration equipment and must pass through as much of the probe as is practical. Section 5.2.3(2) is modified to refine the alternative cylinder gas audit (CGA) criteria in response to the use of analyzers with lower span values. In section 6.2, to provide clarity and clear up any confusion, the language referring to the relevant performance specification is removed, and the language referring to the use of equation 1–1 is inserted.

S. Procedure 5 of Appendix F of Part 60

Regulated entities have pointed out that we did not include criteria for the system integrity check required in Procedure 5. In section 2.5, we clarified that ongoing daily calibration of the Hg CEMS must be conducted using elemental mercury reference gas. This is consistent with revisions that we made to the Hg monitoring requirements in 40 CFR part 63, subpart UUUUU (81 FR 20172, April 6, 2016). We revised the title of section 4.0 and added section 4.4 to explain more explicitly the procedure for conducting the system integrity check as well as to provide the criteria for passing the check. In response to

comment, we changed “calendar” days to “operating” days in the first sentence in section 4.4 to provide harmonization with the Mercury Air Toxics Standards (MATS) Rule (40 CFR part 63, subpart UUUUU). Also, in response to comment, we revised the acceptance criteria for the system integrity check in section 4.4 to better comport with the MATS Rule. The acceptance criteria for the system integrity check now reads “The absolute value of the difference between the Hg CEMS output response and the reference gas must be less than or equal to 10.0 percent of the reference gas value or 0.8 µg/scm.”

In section 5.1.3, to add clarity, we inserted language referring to equation 1–1 of Procedure 1 for calculating relative accuracy.

T. General Provisions (Subpart A) of Part 63

In the General Provisions of part 63, § 63.14 is revised to: (1) add ASTM D6784–16 to paragraph (h) and (2) add “Standard Methods for the Examination of Waste and Wastewater” method 5210 to paragraph (u).

U. National Emission Standards for Hazardous Air Pollutants From the Pulp and Paper Industry (Subpart S) of Part 63

In subpart S, the existing reference in 40 CFR 63.457(c)(4) to method 405.1 of part 136 of chapter 40 for the measurement of biochemical oxygen demand (BOD) is no longer valid, as method 405.1 was withdrawn in 2007. It was replaced with Biochemical Oxygen Demand Standard Methods 5210 B (72 FR 11199, March 12, 2007), which has been previously approved in test plans for measuring BOD to demonstrate compliance with the requirements of subpart S. In § 63.457(c)(4), the reference to method 405.1 is replaced with reference to method 5210B. The parent method, method 5210, which includes method 5210B, is also incorporated by reference in 40 CFR 63.14.

V. National Emission Standards for Hazardous Air Pollutants From Hazardous Waste Combustors (Subpart EEE) of Part 63

In the appendix to subpart EEE, the erroneous language regarding an Interference Response Test in the introductory paragraph of section 5 is removed, and section 5.3 in its entirety is removed.

W. National Emission Standards for Hazardous Air Pollutants: Paper and Other Web Coating (Subpart JJJJ) of Part 63

In 2009, revisions were made to § 63.3360(e)(1)(viii) to clarify that the results of method 25 or method 25A were being used to determine “total organic volatile matter” (85 FR 41276). At the time, the use of the terminology “total gaseous non-methane organic volatile organic matter” in § 63.3360(e)(1)(vi) was overlooked. We are revising § 63.3360(e)(1)(vi) by removing the term “non-methane” to be consistent with § 63.3360(e)(1)(viii).

X. National Emission Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines (Subpart ZZZZ) of Part 63

We have received multiple inquiries regarding the requirements in table 4 of Subpart ZZZZ that are used to measure the exhaust gas moisture when measuring the concentration of carbon monoxide (CO), formaldehyde, or total hydrocarbon (THC) to demonstrate compliance with the rule. It was first pointed out that it is not always necessary to measure that exhaust gas moisture when measuring CO. We are adding language to all three sections of table 4 stating that that the moisture measurement is only necessary when needed to correct the CO, formaldehyde, THC and/or O₂ measurements to a dry basis.

Y. National Emission Standards for Hazardous Air Pollutants: Engine Test Cells/Standards Residual Risk and Technology Review (Subpart PPPPP) of Part 63

In subpart PPPPP, the existing erroneous statement in § 63.9306(d)(2)(iv) is corrected to read, “Using a pressure sensor with measurement sensitivity of 0.002 inches water, check gauge calibration quarterly and transducer calibration monthly.” Also, in subpart PPPPP, the existing erroneous statement in § 63.9322(a)(1) is corrected to read, “The capture system meets the criteria in Method 204 of appendix M to 40 CFR part 51 for a permanent total enclosure (PE) and directs all the exhaust gases from the enclosure to an add-on control device.”

Z. National Emission Standards for Hazardous Air Pollutants: Coal- and Oil-Fired Electric Utility Steam Generating Units (Subpart UUUUU) of Part 63

We are revising the references in sections 4.1.1.5 and 4.1.1.5.1 in subpart UUUUU, appendix A, to ASTM Method D6784, Standard Test Method for

Elemental, Oxidized, Particle-Bound and Total Mercury in Flue Gas Generated from Coal-Fired Stationary Sources (Ontario Hydro Method), to update them from the 2002 version to the latest version, which was authorized in 2016. In table 5, we are adding ASTM Method D6784–16 as a mercury testing option as it was inadvertently left out previously.

AA. Method 315 of Appendix A of Part 63

Section 16.2 is mislabeled as section 6.2 and is corrected.

BB. Method 323 of Appendix A of Part 63

In method 323, sections 10.1 and 10.3 are revised to require best laboratory practices. The nomenclature in section 12.1 is revised to include “b,” which is the intercept of the calibration curve at zero concentration and revise K_c. These additions are necessary because equation 323–5 in section 12.6 is revised to reflect changes in calibration procedures for calculating the mass of formaldehyde.

V. Public Comments on the Proposed Rule

Eleven comment letters were received from the public on the proposed rule. The public comments and the agency’s responses are summarized in the Response to Comments document located in the docket for this rule. See the ADDRESSES section of this preamble.

VI. Statutory and Executive Order Reviews

Additional information about these statutes and Executive orders can be found at <https://www.epa.gov/laws-regulations/laws-and-executive-orders>.

A. Executive Order 12866: Regulatory Planning and Review and Executive Order 13563: Improving Regulation and Regulatory Review

This action is not a significant regulatory action and was, therefore, not submitted to the Office of Management and Budget (OMB) for review.

B. Paperwork Reduction Act (PRA)

This action does not impose an information collection burden under the PRA. The amendments to test methods, performance specifications, and testing regulations only make corrections, updates, and clarifications to existing testing methodology.

C. Regulatory Flexibility Act (RFA)

I certify that this action will not have a significant economic impact on a substantial number of small entities

under the RFA. This action will not impose any requirements on small entities. This final rule will not impose emission measurement requirements beyond those specified in the current regulations, nor does it change any emission standard.

D. Unfunded Mandates Reform Act (UMRA)

This action does not contain any unfunded mandate as described in UMRA, 2 U.S.C. 1531–1538, and does not significantly or uniquely affect small governments. The action imposes no enforceable duty on any state, local, or tribal governments or the private sector.

E. Executive Order 13132: Federalism

This action does not have federalism implications. It will not have substantial direct effects on the states, on the relationship between the National Government and the states, or on the distribution of power and responsibilities among the various levels of government.

F. Executive Order 13175: Consultation and Coordination With Indian Tribal Governments

This action does not have tribal implications, as specified in Executive Order 13175. This action corrects and updates existing testing regulations. Thus, Executive Order 13175 does not apply to this action.

G. Executive Order 13045: Protection of Children From Environmental Health Risks and Safety Risks

The EPA interprets Executive Order 13045 as applying only to those regulatory actions that concern environmental health or safety risks that the EPA has reason to believe may disproportionately affect children, per the definition of “covered regulatory action” in section 2–202 of the Executive order. This action is not subject to Executive Order 13045 because it does not concern an environmental health risk or safety risk.

H. Executive Order 13211: Actions Concerning Regulations That Significantly Affect Energy Supply, Distribution or Use

This action is not subject to Executive Order 13211 because it is not a significant regulatory action under Executive Order 12866.

I. National Technology Transfer and Advancement Act and 1 CFR Part 51

This action involves technical standards. The EPA used ASTM D6216–20 for continuous opacity monitors in Performance Specification 1. The ASTM

D6216–20 standard covers the procedure for certifying continuous opacity monitors and includes design and performance specifications, test procedures, and QA requirements to ensure that continuous opacity monitors meet minimum design and calibration requirements, necessary in part, for accurate opacity monitoring measurements in regulatory environmental opacity monitoring applications subject to 10 percent or higher opacity standards. The EPA also updated the version of ASTM D6784, a test method for elemental, oxidized, particle-bound, and total mercury in emissions from stationary sources, from the 2002 to 2016 version in the references contained in 40 CFR part 60, appendix B, Performance Specification 12A, for continuous monitoring of mercury emissions. The EPA updated the version of ASTM D6784 referenced in table 5 and appendix A of subpart UUUUU in 40 CFR part 63, for mercury emissions measurement and monitoring.

The EPA also used the Standard Methods Committee Method 5210 Biochemical Oxygen Demand (BOD) from “Standard Methods for the Examination of Water and Wastewater.” Section B of this standard, 5-day BOD, is acceptable as an alternative to method 405.1.

The EPA added language to correct a portion of the ASTM E2515–11 test method. The stipulations modified the post-test leak check procedures as well as added procedures for performing leak checks during a sampling run. The stipulations to ASTM E2515–11 are necessary as we have learned that the quality assurance/quality control (QA/QC) requirements for leak tests required by ASTM E2515–11, section 9.6.5.1 are not sufficient to provide assurance of the sampling system integrity. Additionally, the language of ASTM E2515–11, section 9.6.5.1 currently allows for averaging the PM results from a non-leaking sampling system with those from a leaking sampling system which effectively reduces reported PM emissions by as much as half, rendering the test method inappropriate for compliance determination.

J. Executive Order 12898: Federal Actions To Address Environmental Justice in Minority Populations and Low-Income Populations

Executive Order 12898 (59 FR 7629, February 16, 1994) directs Federal agencies, to the greatest extent practicable and permitted by law, to make environmental justice part of their mission by identifying and addressing, as appropriate, disproportionately high and adverse human health or

environmental effects of their programs, policies, and activities on minority populations (people of color) and low-income populations.

The EPA believes that this type of action does not concern human health or environmental conditions and, therefore, cannot be evaluated with respect to potentially disproportionate and adverse effects on people of color, low-income populations and/or indigenous peoples because it does not establish an environmental health or safety standard. This action corrects, updates, and provides clarity to existing testing regulations.

K. Congressional Review Act (CRA)

This action is subject to the CRA, and the EPA will submit a rule report to each house of the Congress and to the Comptroller General of the United States. This action is not a “major rule” as defined by 5 U.S.C. 804(2).

List of Subjects

40 CFR Part 51

Environmental protection, Air pollution control, Performance specifications, Test methods and procedures.

40 CFR Part 60

Environmental protection, Air pollution control, Incorporation by reference, Performance specifications, Test methods and procedures.

40 CFR Part 63

Environmental protection, Air pollution control, Incorporation by reference, Performance specifications, Test methods and procedures.

Michael S. Regan,
Administrator.

For the reasons set forth in the preamble, the Environmental Protection Agency amends title 40, chapter I of the Code of Federal Regulations as follows:

PART 51—REQUIREMENTS FOR PREPARATION, ADOPTION, AND SUBMITTAL OF IMPLEMENTATION PLANS

■ 1. The authority citation for part 51 continues to read as follows:

Authority: 23 U.S.C. 101; 42 U.S.C. 7401–7671q.

■ 2. Amend appendix M to part 51 in section 12.5 of method 201A by revising equation 25 to read as follows:

Appendix M to Part 51—Recommended Test Methods for State Implementation Plans

* * * * *

Method 201A—Determination of PM₁₀ and PM_{2.5} Emissions From Stationary Sources (Constant Sampling Rate Procedure)

* * * * *

12.0 Calculations and Data Analysis

* * * * *

12.5 * * *

$$\Delta p_s = \Delta p_m \left[\frac{C_p'}{C_p} \right]^2 \quad (\text{Eq. 25})$$

* * * * *

PART 60—STANDARDS OF PERFORMANCE FOR NEW STATIONARY SOURCES

■ 3. The authority citation of part 60 continues to read as follows:

Authority: 42 U.S.C. 7401 *et seq.*

Subpart A—General Provisions

■ 4. Amend § 60.17 by:

■ a. Revising paragraphs (h)(182) and (195);

■ b. Redesignating paragraphs (h)(196) through (217) as paragraphs (h)(197) through (218) respectively; and

■ c. Adding new paragraph (h)(196).

The revisions and addition read as follows:

§ 60.17 Incorporations by reference.

* * * * *

(h) * * *

(182) ASTM D6216–20, Standard Practice for Opacity Monitor Manufacturers to Certify Conformance with Design and Performance Specifications, approved September 1, 2020; IBR approved for appendix B to part 60.

* * * * *

(195) ASTM D6784–02 (Reapproved 2008), Standard Test Method for Elemental, Oxidized, Particle-Bound and Total Mercury in Flue Gas Generated from Coal-Fired Stationary Sources (Ontario Hydro Method), approved April 1, 2008; IBR approved for § 60.56c(b).

(196) ASTM D6784–16, Standard Test Method for Elemental, Oxidized, Particle-Bound and Total Mercury in Flue Gas Generated from Coal-Fired Stationary Sources (Ontario Hydro Method), approved March 1, 2016; IBR approved for appendix B to part 60.

* * * * *

Subpart AAA—Standards of Performance for New Residential Wood Heaters

■ 5. Amend § 60.534 by revising paragraphs (c) and (d) to read as follows:

§ 60.534 What test methods and procedures must I use to determine compliance with the standards and requirements for certification?

* * * * *

(c) For affected wood heaters subject to the 2015 and 2020 particulate matter emission standards specified in § 60.532(a) through (c), particulate matter emission concentrations must be measured with ASTM E2515–11 (IBR, see § 60.17) with the following exceptions: eliminate section 9.6.5.1 of ASTM E2515–11 and perform the post-test leak checks as described in paragraph (c)(1) of this section. Additionally, if a component change of either sampling train is needed during sampling, then perform the leak check specified in paragraph (c)(2) of this section. Four-inch filters and Teflon membrane filters or Teflon-coated glass fiber filters may be used in ASTM E2515–11.

(1) *Post-test leak check.* A leak check of each sampling train is mandatory at the conclusion of each sampling run before sample recovery. The leak check must be performed in accordance with the procedures of ASTM E2515–11, section 9.6.4.1 (IBR, see § 60.17), except that it must be conducted at a vacuum equal to or greater than the maximum value reached during the sampling run. If the leakage rate is found to be no greater than 0.0003 m³/min (0.01 cfm) or 4% of the average sampling rate (whichever is less), the leak check results are acceptable. If a higher leakage rate is obtained, the sampling run is invalid.

(2) *Leak checks during sample run.* If, during a sampling run, a component (e.g., filter assembly) change becomes necessary, a leak check must be conducted immediately before the change is made. Record the sample volume before and after the leak test. The sample volume collected during any leak checks must not be included in the total sample volume for the test run. The leak check must be done according to the procedure outlined in ASTM E2515–11, section 9.6.4.1 (IBR, see § 60.17), except that it must be done at a vacuum equal to or greater than the maximum value recorded up to that point in the sampling run. If the leakage rate is found to be no greater than 0.0003 m³/min (0.01 cfm) or 4% of the average sampling rate (whichever is less), the leak check results are acceptable. If a higher leakage rate is obtained, the sampling run is invalid.

Note 1 to paragraph (c): Immediately after component changes, leak checks are optional but highly recommended. If such leak checks are done, the procedure in paragraph (c)(1) of this section should be used.

(d) For all tests conducted using ASTM E2515–11 (IBR, see § 60.17), with the exceptions described in paragraphs (c)(1) and (2) of this section, and pursuant to this section, the manufacturer and approved test laboratory must also measure the first hour of particulate matter emissions for each test run by sampling with a third, identical and independent sampling train operated concurrently for the first hour of PM paired train compliance testing according to paragraph (c) of this section. The manufacturer and approved test laboratory must report the test results from this third train separately as the first hour emissions.

* * * * *

■ 6. Amend § 60.539b by revising paragraph (b) to read as follows:

§ 60.539b What parts of the General Provisions do not apply to me?

* * * * *

(b) Section 60.8(a), (c), (d), (e), (f)(1), and (g);

* * * * *

Subpart QQQQ—Standards of Performance for New Residential Hydronic Heaters and Forced-Air Furnaces

■ 7. Amend § 60.5474 by revising paragraphs (b)(2), (3), and (6) to read as follows:

§ 60.5474 What standards and requirements must I meet and by when?

* * * * *

(b) * * *

(2) 2020 residential hydronic heater particulate matter emission limit: 0.10 lb/mmBtu (0.043 g/MJ) heat output per individual burn rate as determined by the crib wood test methods and procedures in § 60.5476 or an alternative crib wood test method approved by the Administrator.

(3) 2020 residential hydronic heater cord wood alternative compliance option for particulate matter emission limit: 0.15 lb/mmBtu (0.064 g/MJ) heat output per individual burn rate as determined by the cord wood test methods and procedures in § 60.5476 or an alternative cord wood test method approved by the Administrator.

* * * * *

(6) 2020 forced-air furnace particulate matter emission limit: 0.15 lb/mmBtu (0.064 g/MJ) heat output per individual burn rate as determined by the cord wood test methods and procedures in § 60.5476 or cord wood test methods approved by the Administrator.

* * * * *

■ 8. Amend § 60.5476 by:

- a. Removing paragraphs (c)(5) and (6); and
- b. Revising paragraph (f).
The revision reads as follows:

§ 60.5476 What test methods and procedures must I use to determine compliance with the standards and requirements for certification?

(f) For affected wood heaters subject to the particulate matter emission standards, particulate matter emission concentrations must be measured with ASTM E2515–11 (IBR, see § 60.17) with the following exceptions, eliminate section 9.6.5.1 of ASTM E2515–11 and perform the post-test leak checks as described in paragraph (f)(1) of this section. Additionally, if a component change of either sampling train is needed during sampling, then perform the leak check specified in paragraph (f)(2) of this section. Four-inch filters and Teflon membrane filters or Teflon-coated glass fiber filters may be used in ASTM E2515–11. For all tests conducted using ASTM 2515–11, with the exceptions described in paragraphs (f)(1) and (2) of this section, the manufacturer and approved test laboratory must also measure the first hour of particulate matter emissions for each test run by sampling with a third, identical and independent sampling train operated concurrently with the first hour of PM paired train compliance testing. The manufacturer and approved test laboratory must report the test results for this third train separately as the first hour emissions.

(1) *Post-test leak check.* A leak check of each sampling train is mandatory at the conclusion of each sampling run before sample recovery. The leak check must be performed in accordance with the procedures of ASTM E2515–11, section 9.6.4.1 (IBR, see § 60.17), except that it must be conducted at a vacuum equal to or greater than the maximum value reached during the sampling run. If the leakage rate is found to be no greater than 0.0003 m³/min (0.01 cfm) or 4% of the average sampling rate

(whichever is less), the leak check results are acceptable. If a higher leakage rate is obtained, the sampling run is invalid.

(2) *Leak checks during sample run.* If, during a sampling run, a component (e.g., filter assembly) change becomes necessary, a leak check must be conducted immediately before the change is made. Record the sample volume before and after the leak test. The sample volume collected during any leak checks must not be included in the total sample volume for the test run. The leak check must be done according to the procedure outlined in ASTM E2515–11, section 9.6.4.1 (IBR, see § 60.17), except that it must be done at a vacuum equal to or greater than the maximum value recorded up to that point in the sampling run. If the leakage rate is found to be no greater than 0.0003 m³/min (0.01 cfm) or 4% of the average sampling rate (whichever is less), the leak check results are acceptable. If a higher leakage rate is obtained, the sampling run is invalid.

Note 1 to paragraph (f): Immediately after component changes, leak checks are optional but highly recommended. If such leak checks are done, the procedure in paragraph (f)(1) of this section should be used.

* * * * *

- 9. Amend § 60.5483 by revising paragraph (b) to read as follows:

§ 60.5483 What parts of the General Provisions do not apply to me?

* * * * *

- (b) Section 60.8(a), (c), (d), (e), (f)(1), and (g);

* * * * *

- 10. Amend appendix A–1 to part 60 by revising sections 11.5, 11.5.1, and 11.5.2, and table 1–2 under the heading “17.0 Tables, Diagrams, Flowcharts, and Validation Data” in method 1 to read as follows:

Appendix A–1 to Part 60—Test Methods 1 Through 2F

* * * * *

Method 1—Sample and Velocity Traverses for Stationary Sources

* * * * *

11.0 Procedure

* * * * *

11.5 Alternative Measurement Site Selection Procedure. The alternative site selection procedure may be used to determine the rotation angles in lieu of the procedure outlined in section 11.4 of this method.

11.5.1 This alternative procedure applies to sources where measurement locations are less than 2 equivalent or duct diameters downstream or less than one-half duct diameter upstream from a flow disturbance. The alternative should be limited to ducts larger than 24 inches in diameter where blockage and wall effects are minimal. A directional flow-sensing probe is used to measure pitch and yaw angles of the gas flow at 40 or more traverse points; the resultant angle is calculated and compared with acceptable criteria for mean and standard deviation.

Note: Both the pitch and yaw angles are measured from a line passing through the traverse point and parallel to the stack axis. The pitch angle is the angle of the gas flow component in the plane that INCLUDES the traverse line and is parallel to the stack axis. The yaw angle is the angle of the gas flow component in the plane PERPENDICULAR to the traverse line at the traverse point and is measured from the line passing through the traverse point and parallel to the stack axis.

11.5.2 Traverse Points. Use a minimum of 40 traverse points for circular ducts and 42 points for rectangular ducts for the gas flow angle determinations. Follow the procedure outlined in section 11.3 and table 1–1 or 1–2 of this method for the location and layout of the traverse points. If the alternative measurement location is determined to be acceptable according to the criteria in this alternative procedure, use the same minimum of 40 traverse points for circular ducts and 42 points for rectangular ducts that were used in the alternative measurement procedure for future sampling and velocity measurements.

* * * * *

17.0 Tables, Diagrams, Flowcharts, and Validation Data

* * * * *

TABLE 1–2—LOCATION OF TRAVERSE POINTS IN CIRCULAR STACKS
[Percent of stack diameter from inside wall to traverse point]

Traverse point number on a diameter	Number of traverse points on a diameter											
	2	4	6	8	10	12	14	16	18	20	22	24
1	14.6	6.7	4.4	3.2	2.6	2.1	1.8	1.6	1.4	1.3	1.1	1.1
2	85.4	25.0	14.6	10.5	8.2	6.7	5.7	4.9	4.4	3.9	3.5	3.2
3		75.0	29.6	19.4	14.6	11.8	9.9	8.5	7.5	6.7	6.0	5.5
4		93.3	70.4	32.3	22.6	17.7	14.6	12.5	10.9	9.7	8.7	7.9
5			85.4	67.7	34.2	25.0	20.1	16.9	14.6	12.9	11.6	10.5
6			95.6	80.6	65.8	35.6	26.9	22.0	18.8	16.5	14.6	13.2
7				89.5	77.4	64.4	36.6	28.3	23.6	20.4	18.0	16.1
8				96.8	85.4	75.0	63.4	37.5	29.6	25.0	21.8	19.4
9					91.8	82.3	73.1	62.5	38.2	30.6	26.2	23.0
10					97.4	88.2	79.9	71.7	61.8	38.8	31.5	27.2
11						93.3	85.4	78.0	70.4	61.2	39.3	32.3

* * * * *

■ 12. Amend appendix A–4 to part 60 by revising section 10.1.3 in method 7 to read as follows:

Appendix A–4 to Part 60—Test Methods 6 Through 10B

* * * * *

Method 7—Determination of Nitrogen Oxide Emissions From Stationary Sources

* * * * *

10.0 Calibration and Standardization

* * * * *

10.1.3 Spectrophotometer Calibration Quality Control. Multiply the absorbance value obtained for each standard by the K_c factor (reciprocal of the least squares slope)

to determine the distance each calibration point lies from the theoretical calibration line. The difference between the calculated concentration values and the actual concentrations (*i.e.*, 100, 200, 300, and 400 $\mu\text{g NO}_2$) shall be less than 7 percent for all standards.

* * * * *

■ 13. Amend appendix A–7 to part 60 by:

■ a. Revising equation 19–5 in section 12.2.3.2 in method 19;

■ b. In method 25:

■ i. Adding sections 12.9 and 12.9.1 through 12.9.16; and

■ ii. Revising figure 25–6 under the heading “17.0 Tables, Diagrams, Flowcharts, and Validation Data”; and

■ c. In method 25C:

■ i. Revising section 9.1; and

■ ii. Revising the entries “ C_{N2} ” and “ C_{mN2} ” in section 12.1.

The revisions and additions read as follows:

Appendix A–7 to Part 60—Test Methods 19 Through 25E

* * * * *

Method 19—Determination of Sulfur Dioxide Removal Efficiency and Particulate Matter, Sulfur Dioxide, and Nitrogen Oxide Emission Rates

* * * * *

12.0 Data Analysis and Calculations

* * * * *

12.2.3.2 * * *

$$E = C_d F_d \frac{20.9}{20.9 - \frac{\%O_{2W}}{1 - B_{WS}}} \quad \text{Eq. 19-5}$$

* * * * *

Method 25—Determination of Total Gaseous Nonmethane Organic Emissions as Carbon

* * * * *

12.0 Data Analysis and Calculations

* * * * *

12.9 Record and Report Initial Method Checks as follows:

12.9.1 Calibration and Linearity Check Gas Certifications (sections 7.2 and 7.4 of this method).

12.9.2 Condensate Trap Blank Check (section 8.1.1 of this method).

12.9.3 Pretest Leak-Check (section 8.1.4 of this method).

12.9.4 Condensate Recovery Apparatus (section 10.1.1 of this method).

12.9.5 Carrier Gas and Auxiliary O_2 Blank Check (section 10.1.1.1 of this method).

12.9.6 Oxidation Catalyst Efficiency Check (section 10.1.1.2 of this method).

12.9.7 System Performance Check (section 10.1.1.3 of this method).

12.9.8 Oxidation Catalyst Efficiency Check (section 10.1.2.1 of this method).

12.9.9 Reduction Catalyst Efficiency Check (section 10.1.2.2 of this method).

12.9.10 NMO Analyzer Linearity Check Calibration (section 10.1.2.3 of this method).

12.9.11 NMO Analyzer Daily Calibration (section 10.2 of this method).

12.9.12 Condensate Recovery (section 11.1 of this method).

12.9.13 Daily Performance Checks (section 11.1.1 of this method).

12.9.14 Leak-Check (section 11.1.1.1 of this method).

12.9.15 System Background Test (section 11.1.1.2 of this method).

12.9.16 Oxidation Catalyst Efficiency Check (section 11.1.1.3 of this method).

* * * * *

17.0 Tables, Diagrams, Flowcharts, and Validation Data

* * * * *

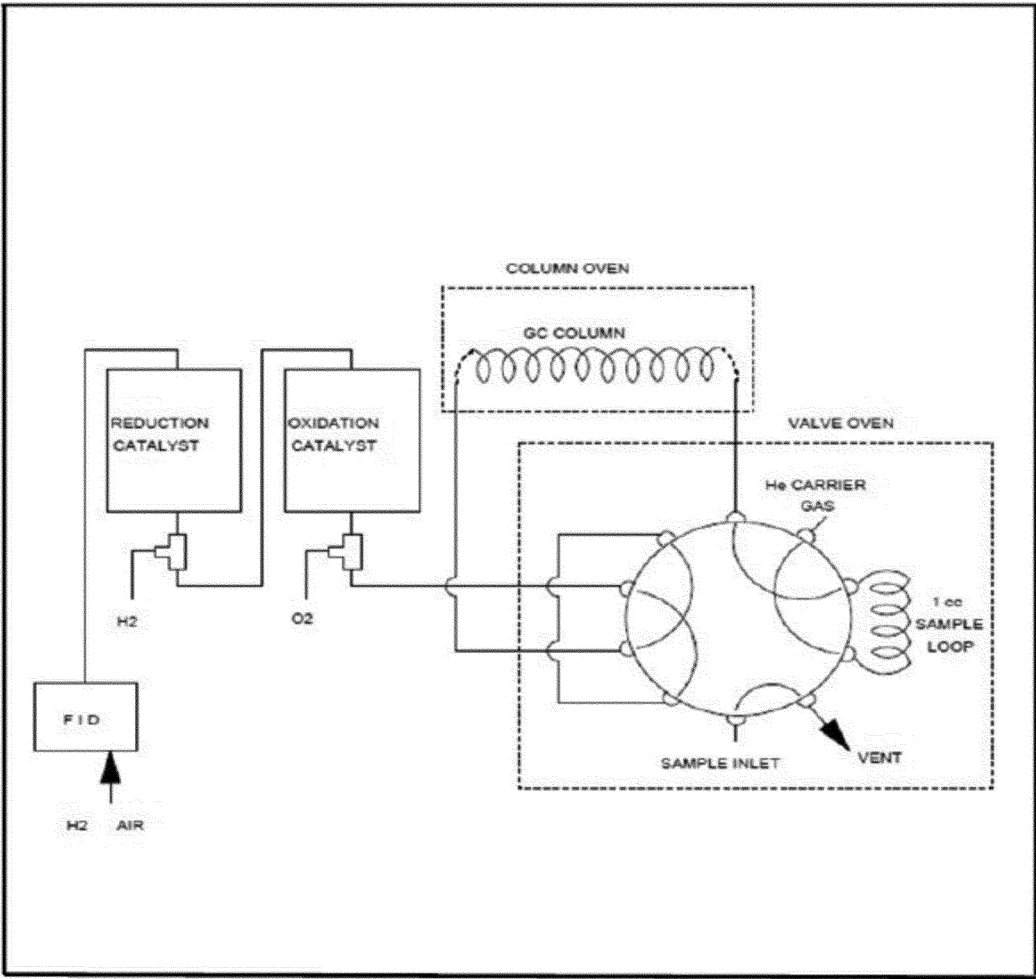


Figure 25–6. Nonmethane Organic Analyzer (NMO)

* * * * *

Method 25C—Determination of Nonmethane Organic Compounds (NMOC) in Landfill Gases

* * * * *

9.0 Quality Control
9.1 Miscellaneous Quality Control Measures.

Section	Quality control measure	Effect
8.4.2	Verify that landfill gas sample contains less than 20 percent N ₂ or 5 percent O ₂ . Landfills with 3-year average annual rainfalls equal to or less than 20 inches annual rainfalls samples are acceptable when the N ₂ to O ₂ concentration ratio is greater than 3.71.	Ensures that ambient air was not drawn into the landfill gas sample and gas was sampled from an appropriate location.
10.1, 10.2	NMOC analyzer initial and daily performance checks	Ensures precision of analytical results.

* * * * *

12.0 Data Analysis and Calculations

* * * * *

12.1 Nomenclature

* * * * *

C_{N2} = N₂ concentration in the landfill gas sample.
C_{mN2} = Measured N₂ concentration, diluted landfill gas sample.

* * * * *

- 14. Amend appendix A–8 to part 60 by:
- a. Revising sections 12.4 and 12.5 in method 26.
- b. Revising section 13.8 in test method 28WHH.

The revisions read as follows:

Appendix A–8 to Part 60—Test Methods 26 Through 30B

* * * * *

Method 26—Determination of Hydrogen Halide and Halogen Emissions From Stationary Sources Non-Isokinetic Method

* * * * *

12.0 Data Analysis and Calculations

* * * * *

12.4 Total µg HCl, HBr, or HF Per Sample.

$$m_{HX} = K_{HCL,HBr,HF} V_s (S_x - B_x) \text{ Eq. 26-4}$$

12.5 Total $\mu\text{g Cl}_2$ or Br_2 Per Sample.

$$m_{x2} = V_s(S_{x-} - B_{x-}) \text{ Eq. 26-5}$$

* * * * *

$$CO_{g/min} = Q_{std} \cdot CO_s \cdot 3.30 \times 10^{-5}$$

Total CO emissions for each of the four test periods (CO_{-1} , CO_{-2} , CO_{-3} , CO_{-4}) shall be calculated as the sum of the emissions rates for each of the 1-minute intervals. Total CO emissions for the test run, CO_T , shall be calculated as the sum of CO_{-1} , CO_{-2} , CO_{-3} and CO_{-4} .

* * * * *

- 15. Amend appendix B to part 60 by:
- a. Revising sections 2.1, 3.1, 6.1, 8.1(1), (2)(iii), and (3)(ii), 8.2(1) through (3), 9.0, 12.1, 13.1, 13.2, and 16.0, reference 8, in performance specification 1;
- b. Revising sections 8.3.3 and 12.5 in performance specification 2;
- c. Revising performance specification 4B;
- d. Revising section 13.2 in performance specification 6;
- e. Revising sections 8.4.2, 8.4.4, 8.4.5, 8.4.6.1, 13.3, and 17.5, and figure 12A–3 in section 18 in performance specification 12A; and
- f. Revising sections 1.1, 3.11, 3.12, 9.1, 13.1, and 13.5 in performance specification 16.

The revisions read as follows:

Appendix B to Part 60—Performance Specifications

* * * * *

Performance Specification 1—Specifications and Test Procedures for Continuous Opacity Monitoring Systems in Stationary Sources

* * * * *

2.0 What are the basic requirements of PS-1?

* * * * *

2.1 ASTM D6216–20 (IBR, see § 60.17) is the reference for design specifications, manufacturer's performance specifications, and test procedures. The opacity monitor manufacturer must periodically select and test an opacity monitor, that is representative of a group of monitors produced during a specified period or lot, for conformance with the design specifications in ASTM D6216–20. The opacity monitor manufacturer must test each opacity monitor for conformance with the manufacturer's performance specifications in ASTM D6216–20. *Note:* If the initial certification of the opacity monitor occurred before May 30, 2023, using D6216–98, D6216–03, D6216–07, or D6216–12, it is not necessary to recertify using D6216–20.

* * * * *

Test Method 28—WHH for Measurement of Particulate Emissions and Heating Efficiency of Wood-Fired Hydronic Heating Appliances

* * * * *

13.0 Calculation of Results

* * * * *

3.0 What special definitions apply to PS-1?

3.1 All definitions and discussions from section 3 of ASTM D6216–20 are applicable to PS-1.

* * * * *

6.0 What equipment and supplies do I need?

6.1 *Continuous Opacity Monitoring System.* You, as owner or operator, are responsible for purchasing an opacity monitor that meets the specifications of ASTM D6216–20, including a suitable data recorder or automated data acquisition handling system. Example data recorders include an analog strip chart recorder or more appropriately an electronic data acquisition and reporting system with an input signal range compatible with the analyzer output.

* * * * *

8.0 What performance procedures are required to comply with PS-1?

* * * * *

8.1 * * *

(1) You must purchase an opacity monitor that complies with ASTM D6216–20 and obtain a certificate of conformance from the opacity monitor manufacturer.

(2) * * *

(iii) *Alternative Locations and Light Beam Paths.* You may select locations and light beam paths, other than those cited in section 8.1(2)(ii) of this method, if you demonstrate, to the satisfaction of the Administrator or delegated agent, that the average opacity measured at the alternative location or path is equivalent to the opacity as measured at a location meeting the criteria of sections 8.1(2)(i) and (ii) of this method. The opacity at the alternative location is considered equivalent if (1) the average opacity value measured at the alternative location is within ± 10 percent of the average opacity value measured at the location meeting the installation criteria, and (2) the difference between any two average opacity values is less than 2 percent opacity (absolute). You use the following procedure to conduct this demonstration: simultaneously measure the opacities at the two locations or paths for a minimum period of time (e.g., 180-minutes) covering the range of normal operating conditions and compare the results. You may use alternative procedures for determining acceptable locations if those procedures are approved by the Administrator.

(3) * * *

(ii) *Calibration Error Check.* Conduct a three-point calibration error test using three

13.8 Carbon Monoxide Emissions

For each minute of the test period, the carbon monoxide emissions rate (g/min) shall be calculated as:

$$\text{Eq. 23}$$

calibration attenuators that produce outlet pathlength corrected, single-pass opacity values shown in ASTM D6216–20, section 7.5. If your applicable limit is less than 10 percent opacity, use attenuators as described in ASTM D6216–20, section 7.5 for applicable standards of 10 to 19 percent opacity. Confirm the external audit device produces the proper zero value on the COMS data recorder. Separately, insert each calibration attenuators (low, mid, and high-level) into the external audit device. While inserting each attenuator, (1) ensure that the entire light beam passes through the attenuator, (2) minimize interference from reflected light, and (3) leave the attenuator in place for at least two times the shortest recording interval on the COMS data recorder. Make a total of five nonconsecutive readings for each attenuator. At the end of the test, correlate each attenuator insertion to the corresponding value from the data recorder. Subtract the single-pass calibration attenuator values corrected to the stack exit conditions from the COMS responses. Calculate the arithmetic mean difference, standard deviation, and confidence coefficient of the five measurements value using equations 1–3, 1–4, and 1–5 of this method. Calculate the calibration error as the sum of the absolute value of the mean difference and the 95 percent confidence coefficient for each of the three test attenuators using equation 1–6 of this method. Report the calibration error test results for each of the three attenuators.

* * * * *

8.2 * * *

(1) Conduct the verification procedures for design specifications in section 6 of ASTM D6216–20.

(2) Conduct the verification procedures for performance specifications in section 7 of ASTM D6216–20.

(3) Provide to the owner or operator a report of the opacity monitor's conformance to the design and performance specifications required in sections 6 and 7 of ASTM D6216–20 in accordance with the reporting requirements of section 9 in ASTM D6216–20.

9.0 What quality control measures are required by PS-1?

Opacity monitor manufacturers must initiate a quality program following the requirements of ASTM D6216–20, section 8. The quality program must include (1) a quality system and (2) a corrective action program.

* * * * *

12.0 What calculations are needed for PS-1?

12.1 Desired Attenuator Values. Calculate the desired attenuator value corrected to the emission outlet pathlength as follows:

$$OP_2 = 1 - (1 - OP_1)^{\frac{L_2}{L_1}} \quad \text{Eq. 1-1}$$

Where:

OP₁ = Nominal opacity value of required low-, mid-, or high-range calibration attenuators.

OP₂ = Desired attenuator opacity value from ASTM D6216–20, section 7.5 at the opacity limit required by the applicable subpart of this part.

L₁ = Monitoring pathlength.

L₂ = Emission outlet pathlength.

* * * * *

13.0 What specifications does a COMS have to meet for certification?

* * * * *

13.1 Design Specifications. The opacity monitoring equipment must comply with the design specifications of ASTM D6216–20.

13.2 Manufacturer's Performance Specifications. The opacity monitor must comply with the manufacturer's performance specifications of ASTM D6216–20.

* * * * *

16.0 Which references are relevant to this method?

* * * * *

8. ASTM D6216–20: Standard Practice for Opacity Monitor Manufacturers to Certify Conformance with Design and Performance Specifications. American Society for Testing and Materials (ASTM). September 2020.

* * * * *

Performance Specification 2—Specifications and Test Procedures for SO₂ and NO_x Continuous Emission Monitoring Systems in Stationary Sources

* * * * *

8.0 Performance Specification Test Procedure

* * * * *

8.3.3 Conduct the CD test at the two points specified in section 6.1.2 of this method. Introduce to the CEMS the reference gases, gas cells, or optical filters (these need not be certified). When using reference gases, introduce the reference gas prior to any sample conditioning or filtration equipment and ensure that it passes through all filters, scrubbers, conditioners, and other monitor components used during normal sampling. The reference gas should pass through as much of the sampling probe as practical. Record the CEMS response and subtract this value from the reference value (see example data sheet in figure 2–1 of this method).

* * * * *

12.0 Calculations and Data Analysis

* * * * *

12.5 Relative Accuracy. Calculate the RA, expressed as a percentage, of a set of data as follows:

$$RA = \frac{[|\bar{d}| + |CC|]}{\overline{RM}} \times 100 \quad \text{Eq. 2 - 6}$$

Where:

|\bar{d}| = Absolute value of the mean differences (from equation 2–3 of this method).

|CC| = Absolute value of the confidence coefficient (from equation 2–3 of this method).

\overline{RM} = Average RM value. In cases where the average emissions for the test are less than 50 percent of the applicable emission standard, substitute the applicable emission standard value in the denominator of equation 2–6 of this method in place of the average RM value. In all other cases, use \overline{RM}.

* * * * *

Performance Specification 4B—Specifications and Test Procedures for Carbon Monoxide and Oxygen Continuous Monitoring Systems in Stationary Sources**1.0 Scope and Application****1.1. Analytes.**

Analyte	CAS No.
Carbon Monoxide (CO)	630–08–0
Oxygen (O ₂)	7782–44–7

1.2. Applicability.

1.2.1. This specification is to be used for evaluating the acceptability of carbon monoxide (CO) and oxygen (O₂) continuous emission monitoring systems (CEMS) at the time of or soon after installation and whenever specified in this part. The CEMS may include, for certain stationary sources, (a) flow monitoring equipment to allow measurement of the dry volume of stack effluent sampled, and (b) an automatic sampling system.

1.2.2. This specification is not designed to evaluate the installed CEMS' performance

over an extended period of time, nor does it identify specific calibration techniques and auxiliary procedures to assess the CEMS' performance. The source owner or operator, however, is responsible to properly calibrate, maintain, and operate the CEMS. To evaluate the CEMS' performance, the Administrator may require, under section 114 of the Act, the operator to conduct CEMS performance evaluations at times other than the initial test.

1.2.3. The definitions, installation, and measurement location specifications, test procedures, data reduction procedures, reporting requirements, and bibliography are the same as in Performance Specification (PS) 3 (for O₂) and PS 4A (for CO) of this appendix except as otherwise noted in this specification.

2.0 Summary of Performance Specification

Installation and measurement location specifications, performance specifications, test procedures, and data reduction procedures are included in this specification. Reference method tests, calibration error tests, calibration drift tests, and interferant tests are conducted to determine conformance of the CEMS with the specification.

3.0 Definitions

The definitions are the same as in section 3.0 of PS 2 with the following definitions added:

3.1. *Continuous Emission Monitoring System (CEMS)*. This definition is the same as section 3.0 of PS 2 with the following addition. A continuous monitor is one in which the sample to be analyzed passes the measurement section of the analyzer without interruption.

3.2. *Response Time (RT)*. The time interval between the start of a step change in the

system input and when the pollutant analyzer output reaches 95 percent of the final value.

3.3. *Calibration Error (CE)*. The difference between the concentration indicated by the CEMS and the known concentration generated by a calibration source when the entire CEMS, including the sampling interface is challenged. A CE test procedure is performed to document the accuracy and linearity of the CEMS over the entire measurement range.

4.0 Interferences [Reserved]**5.0 Safety**

This performance specification may involve hazardous materials, operations, and equipment. This performance specification may not address all of the safety problems associated with its use. It is the responsibility of the user to establish appropriate safety and health practices and determine the applicable regulatory limitations prior to performing this performance specification. The CEMS user's manual should be consulted for specific precautions to be taken with regard to the analytical procedures.

6.0 Equipment and Supplies

Same as section 6.0 of PS 2, except for the following:

6.1 Data Recorder Scale. For O₂, same as specified in PS 3, except that the span must be 25 percent. The span of the O₂ may be higher if the O₂ concentration at the sampling point can be greater than 25 percent. For CO, same as specified in PS 4A, except that the low-range span must be 200 ppm and the high range span must be 3000 ppm. In addition, the scale for both CEMS must record all readings within a measurement range with a resolution of 0.5 percent.

7.0 Reagents and Standards

8.0 Sample Collection, Preservation, Storage, and Transport

8.1. Installation and Measurement Location Specifications.

8.1.1. The CEMS Installation. This specification is the same as section 8.1.1 of PS 2 with the following additions. Both the CO and O₂ monitors should be installed at the same general location. If this is not possible, they may be installed at different locations if the effluent gases at both sample locations are not stratified and there is no leakage of air between sampling locations.

8.1.2. Measurement Location. Same as section 8.1.2 of PS 2.

8.1.2.1. Point CEMS. The measurement point should be within or centrally located over the centroidal area of the stack or duct cross section.

8.1.2.2. Path CEMS. The effective measurement path should: (1) have at least 70 percent of the path within the inner 50 percent of the stack or duct cross sectional area, or (2) be centrally located over any part of the centroidal area.

8.1.3. Reference Method (RM) Measurement Location and Traverse Points.

This specification is the same as section 8.1.3 of PS 2 with the following additions. When pollutant concentration changes are due solely to diluent leakage and CO and O₂ are simultaneously measured at the same location, one half diameter may be used in place of two equivalent diameters.

8.2 Pretest Preparation. Install the CEMS, prepare the RM test site according to the specifications in section 8.1 of this method, and prepare the CEMS for operation according to the manufacturer's written instructions.

8.3 Stratification Test Procedure. Stratification is defined as the difference in excess of 10 percent between the average concentration in the duct or stack and the concentration at any point more than 1.0 meter from the duct or stack wall. To determine whether effluent stratification exists, a dual probe system should be used to determine the average effluent concentration while measurements at each traverse point are being made. One probe, located at the stack or duct centroid, is used as a stationary reference point to indicate change in the effluent concentration over time. The second probe is used for sampling at the traverse points specified in method 1 in appendix A to this part. The monitoring system samples sequentially at the reference and traverse points throughout the testing period for five minutes at each point.

8.4 Calibration Drift (CD) Test Procedure. Same as section 8.3 in PS 2.

Note: The CE and RT tests must be conducted during the CD test period.

8.5 Calibration Error Test Procedure. Challenge each monitor (both low and high range CO and O₂) with zero gas and EPA Protocol 1 cylinder gases at three measurement points within the ranges specified in table 4B–1 of this method (in section 18.0).

Operate each monitor in its normal sampling mode as nearly as possible. The calibration gas must be injected into the sample system as close to the sampling probe outlet as practical and should pass through all CEMS components used during normal sampling. Challenge the CEMS three non-consecutive times at each measurement point and record the responses. The duration of each gas injection should be sufficient to ensure that the CEMS surfaces are conditioned.

8.6 Response Time Test Procedure. Same as section 8.3 in PS 4A and must be carried out for both the CO and O₂ monitors.

8.7 Relative Accuracy Test Procedure. Sampling Strategy for Reference Method (RM) Tests, Number of RM Tests, and Correlation of RM and CEMS Data are the same as PS 2, sections 8.4.3, 8.4.4, and 8.4.5, respectively.

9.0 Quality Control [Reserved]

10.0 Calibration and Standardization [Reserved]

11.0 Analytical Procedure

Sample collection and analysis are concurrent for this performance specification (see section 8.0 of this method). Refer to the RM for specific analytical procedures.

12.0 Calculation and Data Analysis

Summarize the results on a data sheet as shown in figure 4B–1 of this method (in section 18.0).

Calibration Error (CE) is the average the differences between the instrument response and the certified cylinder gas value for each gas. Calculate the CE results for the CO monitor according to:

$$CE = \left| \frac{d}{FS} \right| \times 100 \quad \text{Eq. 4B-1}$$

Where:

d = mean difference between the CEMS response and the known reference concentration, and
FS = span value.

The CE for the O₂ monitor is the average percent O₂ difference between the O₂ monitor and the certified cylinder gas value for each gas.

13.0 Method Performance

13.1. Calibration Drift Performance Specification. For O₂, same as specified in PS 3. For CO, the same as specified in PS 4A except that the CEMS calibration must not drift from the reference value of the calibration standard by more than 3 percent of the span value on either the high or low range.

13.2. Calibration Error (CE) Performance Specification. The mean difference between the CEMS and reference values at all three test points (see table 4B–1 of this method) must be no greater than 5 percent of span value for CO monitors and 0.5 percent for O₂ monitors.

13.3. Response Time Performance Specification. The response time for the CO or O₂ monitor must not exceed 240 seconds.

13.4. Relative Accuracy (RA) Performance Specification. For O₂, same as specified in PS 3. For CO, the same as specified in PS 4A.

14.0 Pollution Prevention [Reserved]

15.0 Waste Management [Reserved]

16.0 Alternative Procedure

Alternative RA Procedure. Under some operating conditions, it may not be possible to obtain meaningful results using the RA test procedure. This includes conditions where consistent, very low CO emission or low CO emissions interrupted periodically by short duration, high level spikes are observed. It may be appropriate in these circumstances to waive the RA test and substitute the following procedure.

Conduct a complete CEMS status check following the manufacturer's written instructions. The check should include operation of the light source, signal receiver, timing mechanism functions, data acquisition and data reduction functions, data recorders, mechanically operated functions, sample filters, sample line heaters, moisture traps, and other related functions of the CEMS, as applicable. All parts of the CEMS must be functioning properly before the RA requirement can be waived. The instrument must also successfully pass the CE and CD specifications. Substitution of the alternate procedure requires approval of the Regional Administrator.

17.0 Reference

1. 40 CFR part 266, appendix IX, section 2, "Performance Specifications for Continuous Emission Monitoring Systems."

18.0 Tables, Diagrams, Flowcharts, and Validation Data

TABLE 4B–1—CALIBRATION ERROR CONCENTRATION RANGE

Measurement point	CO low range (ppm)	CO high range (ppm)	O ₂ (%)
1	0–40	0–600	0–2
2	60–80	900–1,200	8–10
3	140–160	2,100–2,400	14–16

FIGURE 4B–1—CALIBRATION ERROR DATA SHEET

Run No.	Calibration value	Monitor response	Difference		
			Zero	Mid	High
1—Zero.					
2—Mid.					
3—High.					
4—Mid.					
5—Zero.					
6—High.					
7—Zero.					
8—Mid.					
9—High.					
Mean Difference =					
Calibration Error =			%	%	%

* * * * *

Performance Specification 6—Specifications and Test Procedures for Continuous Emission Rate Monitoring Systems in Stationary Sources

* * * * *

13.0 Method Performance

* * * * *

13.2 CERMS Relative Accuracy. Calculate the CERMS Relative Accuracy (RA) expressed as a percentage using equation 2–6 of section 12 of PS 2. The RA of the CERMS shall be no greater than 20.0 percent in terms of the units of the emission standard. If the average emissions for the test are less than 50 percent of the applicable emission standard, you may elect to substitute the applicable emission standard value in the denominator of equation 2–6 in place of the average RM value; in this case, the RA of the CERMS shall be no greater than 10.0 percent consistent with section 13.2 of PS 2.

* * * * *

Performance Specification 12A—Specifications and Test Procedures for Total Vapor Phase Mercury Continuous Emission Monitoring Systems in Stationary Sources

* * * * *

8.0 Performance Specification Test Procedure

* * * * *

8.4.2 Reference Methods (RM). Unless otherwise specified in an applicable subpart of this part, use method 29, method 30A, or method 30B in appendix A–8 to this part or ASTM Method D6784–16 (IBR, see § 60.17) as the RM for Hg concentration. For method 29 and ASTM Method D6784–16 only, the filterable portion of the sample need not be included when making comparisons to the CEMS results. When method 29, method 30B, or ASTM D6784–16 is used, conduct the RM test runs with paired or duplicate sampling

systems and use the average of the vapor phase Hg concentrations measured by the two trains. When method 30A is used, paired sampling systems are not required. If the RM and CEMS measure on a different moisture basis, data derived with method 4 in appendix A–3 to this part must also be obtained during the RA test.

* * * * *

8.4.4 Number and Length of RM Test Runs. Conduct a minimum of nine RM test runs. When method 29, method 30B, or ASTM D6784–16 is used, only test runs for which the paired RM trains meet the relative deviation criteria (RD) of this PS must be used in the RA calculations. In addition, for method 29 and ASTM D6784–16, use a minimum sample time of 2 hours and for methods 30A and 30B use a minimum sample time of 30 minutes.

Note: More than nine sets of RM test runs may be performed. If this option is chosen, RM test run results may be excluded so long as the total number of RM test run results used to determine the CEMS RA is greater than or equal to nine. However, all data must be reported including the excluded test run data.

8.4.5 Correlation of RM and CEMS Data. Correlate the CEMS and the RM test data as to the time and duration by first determining from the CEMS final output (the one used for reporting) the integrated average pollutant concentration for each RM test period. Consider system response time, if important, and confirm that the results are on a consistent moisture basis with the RM test. Then, compare each integrated CEMS value against the corresponding RM value. When method 29, method 30B, or ASTM D6784–16 is used, compare each CEMS value against the corresponding average of the paired RM values.

* * * * *

8.4.6.1 When method 29, method 30B, or ASTM D6784–16 is used, outliers are

identified through the determination of relative deviation (RD) of the paired RM tests. Data that do not meet the RD criteria must be flagged as a data quality problem and may not be used in the calculation of RA. The primary reason for performing paired RM sampling is to ensure the quality of the RM data. The percent RD of paired data is the parameter used to quantify data quality. Determine RD for paired data points as follows:

$$RD = \frac{|C_a - C_b|}{C_a + C_b} \times 100 \quad (\text{Equation 12A-3})$$

Where C_a and C_b are the Hg concentration values determined from the paired samples.

* * * * *

13.0 Method Performance

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13.3 Relative Accuracy (RA). The RA of the CEMS must be no greater than 20 percent of the mean value of the RM test data in terms of units of $\mu\text{g}/\text{scm}$. Alternatively, if the mean RM is less than $2.5 \mu\text{g}/\text{scm}$, the results are acceptable if the absolute value of the difference between the mean RM and CEMS values added to the absolute value of the confidence coefficient from equation 12A–7 of this method does not exceed $0.5 \mu\text{g}/\text{scm}$.

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17.0 Bibliography

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17.5 ASTM Method D6784–16, “Standard Test Method for Elemental, Oxidized, Particle-Bound and Total Mercury in Flue Gas Generated from Coal-Fired Stationary Sources (Ontario Hydro Method).”

18.0 Tables and Figures

* * * * *

FIGURE 12A–3—RELATIVE ACCURACY TEST DATA

Run No.	Date	Begin time	End time	RM value ($\mu\text{g}/\text{m}^3$)	CEMS value ($\mu\text{g}/\text{m}^3$)	Difference ($\mu\text{g}/\text{m}^3$)	Run used? (yes/no)	RD ¹
1.								
2.								
3.								
4.								
5.								

FIGURE 12A-3—RELATIVE ACCURACY TEST DATA—Continued

Run No.	Date	Begin time	End time	RM value ($\mu\text{g}/\text{m}^3$)	CEMS value ($\mu\text{g}/\text{m}^3$)	Difference ($\mu\text{g}/\text{m}^3$)	Run used? (yes/no)	RD ¹
6.								
7.								
8.								
9.								
10.								
11.								
12.								
Average Values								

Arithmetic Mean Difference:

Standard Deviation:

Confidence Coefficient:

T-Value:

% Relative Accuracy:

 $|(\text{RM})_{\text{avg}} - (\text{CEMS})_{\text{avg}}|$:

¹ Calculate the RD only if paired samples are taken using RM 30B, RM 29, or ASTM D6784–16. Express RD as a percentage or, for very low RM concentrations ($\leq 1.0 \mu\text{g}/\text{m}^3$), as the absolute difference between C_a and C_b .

* * * * *

Performance Specification 16— Specifications and Test Procedures for Predictive Emission Monitoring Systems in Stationary Sources

1.0 Scope and Application

1.1 Does this performance specification apply to me? If you, the source owner or operator, intend to use (with any necessary approvals) a predictive emission monitoring system (PEMS) to show compliance with your emission limitation under this part or 40 CFR part 61 or 63, you must use the procedures in this performance specification (PS) to determine whether your PEMS is

acceptable for use in demonstrating compliance with applicable requirements. Use these procedures to certify your PEMS after initial installation and periodically thereafter to ensure the PEMS is operating properly. If your PEMS contains a diluent (O_2 or CO_2) measuring component, the diluent component must be tested as well. These specifications apply to PEMS that are installed under this part and 40 CFR parts 61 and 63 after May 30, 2023.

* * * * *

3.0 Definitions

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3.11 *Relative Accuracy Audit (RAA)* means a quarterly audit of the PEMS against

a portable analyzer meeting the requirements of ASTM D6522–00 or a RM for a specified number of runs. A RM may be used in place of the portable analyzer for the RAA.

3.12 *Relative Accuracy Test Audit (RATA)* means a RA test that is performed at least once every four calendar quarters after the initial certification test. The RATA shall be conducted as described in section 8.2 of this method.

* * * * *

9.0 Quality Control

* * * * *

9.1 QA/QC Summary. Conduct the applicable ongoing tests listed in this section.

ONGOING QUALITY ASSURANCE TESTS

Test	PEMS regulatory purpose	Acceptability	Frequency
Sensor Evaluation	All	Daily.
RAA	All	Same as for RA in section 13.5 of this method	Each quarter except quarter when RATA performed.
RATA	All	Same as for RA in section 13.1 of this method	Yearly in quarter when RAA not performed.
Bias Correction	All	If $d_{\text{avg}} \leq cc $	Bias test passed (no correction factor needed).
PEMS Training	All	If $F_{\text{critical}} \geq F$, $r \geq 0.8$	Optional after initial and subsequent RATAs.
Sensor Evaluation Alert Test (optional)	All	See section 6.1.8 of this method	After each PEMS training.

* * * * *

13.0 Method Performance

13.1 PEMS Relative Accuracy. The RA, calculated in units of the emission standard, must not exceed 10 percent if the PEMS measurements are greater than 100 ppm or 0.2 lbs/mm Btu. The RA must not exceed 20 percent if the PEMS measurements are between 100 ppm (or 0.2 lb/mm Btu) and 10 ppm (or 0.02 lb/mm Btu). For measurements below 10 ppm (or 0.02 lb/mm Btu), the absolute mean difference between the PEMS measurements and the RM measurements must not exceed 2 ppm (or 0.01 lb/mm Btu). For diluent only PEMS, an alternative criterion of ± 1 percent absolute difference between the PEMS and RM may be used if less stringent.

* * * * *

13.5 Relative Accuracy Audits (RAA). The average of the three portable analyzer or

RM determinations must not differ from the simultaneous PEMS average value by more than 10 percent of the analyzer or RM for concentrations greater than 100 ppm (or 0.2 lb/mm Btu) or 20 percent for concentrations between 100 ppm (or 0.2 lb/mm Btu) and 10 ppm (or 0.02 lb/mm Btu), or the test is failed. For measurements at 20 ppm (or 0.04 lb/mm Btu) or less, this difference must not exceed 2 ppm (or 0.01 lb/mm Btu) for a pollutant PEMS. For diluent PEMS, the difference must not exceed 1 percent.

* * * * *

- 16. Amend appendix F to part 60 by:
- a. Revising sections 4.1, 5.2.3, and 6.2 in procedure 1; and
- b. In procedure 5:
- i. Revising section 2.5;
- ii. Revising the heading for section 4.0 and adding section 4.4; and
- iii. Revising section 5.1.3.

The revisions and addition read as follows:

Appendix F to Part 60—Quality Assurance Procedures

Procedure 1. Quality Assurance Requirements for Gas Continuous Emission Monitoring Systems Used for Compliance Determination

* * * * *

4. CD Assessment

4.1 CD Requirement. As described in § 60.13(d), source owners and operators of CEMS must check, record, and quantify the CD at two concentration values at least once daily (approximately 24 hours) in accordance with the method prescribed by the manufacturer. When using reference gases, introduce the reference gas prior to any sample conditioning or filtration equipment

and ensure that it passes through all filters, scrubbers, conditioners, and other monitor components used during normal sampling. The reference gas must pass through as much of the sampling probe as practical. The CEMS calibration must, at a minimum, be adjusted whenever the daily zero (or low-level) CD or the daily high-level CD exceeds two times the limits of the applicable PS's in appendix B to this part.

* * * * *

5. Data Accuracy Assessment

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5.2.3 Criteria for Excessive Audit Inaccuracy. Unless specified otherwise in the applicable subpart of this part, the criteria for excessive inaccuracy are:

(1) For the RATA, the allowable RA in the applicable PS in appendix B to this part.

(2) For the CGA, for pollutant monitors, the audit inaccuracy must be ± 15 percent of the average audit value as calculated using equation 1–1 of this method or the difference between the average CEMS response and the average audit value must be less than one of the following:

Analyzer span	Alternative CGA criteria (ppm)
≥ 50 ppm	± 5
> 20 ppm, but ≤ 50 ppm	± 3
≤ 20 ppm	± 2

For diluent monitors, ± 15 percent of the average audit value.

(3) For the RAA, ± 15 percent of the three-run average or ± 7.5 percent of the applicable standard, whichever is greater.

* * * * *

6. Calculations for CEMS Data Accuracy

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6.2 RAA Accuracy Calculation. Use equation 1–1 of this method to calculate the accuracy for the RAA. The RAA must be calculated in the units of the applicable emission standard.

* * * * *

Procedure 5. Quality Assurance Requirements for Vapor Phase Mercury Continuous Emissions Monitoring Systems and Sorbent Trap Monitoring Systems Used for Compliance Determination at Stationary Sources

* * * * *

2.0 Definitions

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2.5 Calibration Drift (CD) means the absolute value of the difference between the CEMS output response and either the upscale elemental Hg reference gas or the zero-level elemental Hg reference gas, expressed as a percentage of the span value, when the entire CEMS, including the sampling interface, is challenged after a stated period of operation during which no unscheduled maintenance, repair, or adjustment took place.

* * * * *

4.0 Calibration Drift (CD) Assessment and Weekly System Integrity Check

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4.4 Weekly System Integrity Check. At least once every 7 operating days, using the procedure described in section 8.3.3 of Performance Specification 12A in appendix B to this part, source owners and operators of Hg CEMS must use a single mid- or high-level oxidized Hg (mercuric chloride, HgCl_2) reference gas to assess transport and measurement of oxidized mercury. The absolute value of the difference between the Hg CEMS output response and the reference gas must be less than or equal to 10.0 percent of the reference gas value or 0.8 $\mu\text{g}/\text{scm}$.

* * * * *

5.0 Data Accuracy Assessment

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5.1.3 Relative Accuracy Audit (RAA). As an alternative to the QGA, a RAA may be conducted in three of four calendar quarters, but in no more than three quarters in succession. To conduct a RAA, follow the RATA test procedures in section 8.5 of PS 12A in appendix B to this part, except that only three test runs are required. Calculate the relative accuracy according to equation 1–1 of Procedure 1 of this appendix.

* * * * *

PART 63—NATIONAL EMISSION STANDARDS FOR HAZARDOUS AIR POLLUTANTS FOR SOURCE CATEGORIES

■ 17. The authority citation for part 63 continues to read as follows:

Authority: 42 U.S.C. 7401 *et seq.*

Subpart A—General Provisions

■ 18. Amend § 63.14 by:

- a. Redesignating paragraphs (d) through (t) as paragraphs (e) through (u);
- b. Adding new paragraph (d); and
- c. Revising newly redesignated paragraphs (i)(103) and (104).

The addition and revisions read as follows:

§ 63.14 Incorporations by reference.

* * * * *

(d) American Public Health Association, 1015 18th Street NW, Washington, DC 20036; phone (844) 232–3707; email: standardmethods@subscriptionoffice.com; website: www.standardmethods.org.

(1) Standard Method 5210, Biochemical Oxygen Demand (BOD), revised December 10, 2019; IBR approved for § 63.457(c)

(2) [Reserved]

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(i) * * *

(103) ASTM D6784–02 (Reapproved 2008), Standard Test Method for Elemental, Oxidized, Particle-Bound and Total Mercury in Flue Gas

Generated from Coal-Fired Stationary Sources (Ontario Hydro Method), Approved April 1, 2008; IBR approved for §§ 63.2465(d); 63.11646(a); 63.11647(a) and (d); tables 1, 2, 5, 11, 12t, and 13 to subpart DDDDD; tables 4 and 5 to subpart JJJJJ; tables 4 and 6 to subpart KKKKK; table 4 to subpart JJJJJ.

(104) ASTM D6784–16, Standard Test Method for Elemental, Oxidized, Particle-Bound and Total Mercury in Flue Gas Generated from Coal-Fired Stationary Sources (Ontario Hydro Method), Approved March 1, 2016; IBR approved for table 5 to subpart UUUUU; appendix A to subpart UUUUU.

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Subpart S—National Emission Standards for Hazardous Air Pollutants from the Pulp and Paper Industry

■ 19. Amend § 63.457 by revising paragraph (c)(4) to read as follows:

§ 63.457 Test methods and procedures.

* * * * *

(c) * * *

(4) To determine soluble BOD₅ in the effluent stream from an open biological treatment unit used to comply with §§ 63.446(e)(2) and 63.453(j), the owner or operator shall use section B of method 5210 (IBR, see § 63.14) with the following modifications:

(i) Filter the sample through the filter paper, into an Erlenmeyer flask by applying a vacuum to the flask sidearm. Minimize the time for which vacuum is applied to prevent stripping of volatile organics from the sample. Replace filter paper as often as needed in order to maintain filter times of less than approximately 30 seconds per filter paper. No rinsing of sample container or filter bowl into the Erlenmeyer flask is allowed.

(ii) Perform method 5210B on the filtrate obtained in paragraph (c)(4) of this section. Dilution water shall be seeded with 1 milliliter of final effluent per liter of dilution water. Dilution ratios may require adjustment to reflect the lower oxygen demand of the filtered sample in comparison to the total BOD₅. Three BOD bottles and different dilutions shall be used for each sample.

* * * * *

Subpart EEE—National Emission Standards for Hazardous Air Pollutants from Hazardous Waste Combustors

■ 20. Amend the appendix to subpart EEE of part 63 by revising the appendix heading and section 5 to read as follows:

Appendix A to Subpart EEE of Part 63—Quality Assurance Procedures for Continuous Emissions Monitors Used for Hazardous Waste Combustors

* * * * *

5. Performance Evaluation for CO, O₂, and HC CEMS

Carbon Monoxide (CO), Oxygen (O₂), and Hydrocarbon (HC) CEMS. An Absolute Calibration Audit (ACA) must be conducted quarterly, and a Relative Accuracy Test Audit (RATA) (if applicable, see sections 5.1 and 5.2 of this method) must be conducted yearly. When a performance test is also required under § 63.1207 to document compliance with emission standards, the RATA must coincide with the performance test. The audits must be conducted as follows.

5.1 *Relative Accuracy Test Audit (RATA)*. This requirement applies to O₂ and CO CEMS. The RATA must be conducted at least yearly. Conduct the RATA as described in the RA test procedure (or alternate procedures section) described in the applicable performance specifications. In addition, analyze the appropriate performance audit samples received from the EPA as described in the applicable sampling methods.

5.2 *Absolute Calibration Audit (ACA)*. The ACA must be conducted at least quarterly except in a quarter when a RATA

(if applicable, see section 5.1 of this method) is conducted instead. Conduct an ACA as described in the calibration error (CE) test procedure described in the applicable performance specifications.

5.3 *Excessive Audit Inaccuracy*. If the RA from the RATA or the CE from the ACA exceeds the criteria in the applicable performance specifications, hazardous waste burning must cease immediately. Hazardous waste burning cannot resume until the owner or operator takes corrective measures and audit the CEMS with a RATA to document that the CEMS is operating within the specifications.

* * * * *

Subpart JJJJ—National Emission Standards for Hazardous Air Pollutants: Paper and Other Web Coating

■ 21. Amend § 63.3360 by revising paragraph (e)(1)(vi) introductory text to read as follows:

§ 63.3360 What performance tests must I conduct?

* * * * *

(e) * * *

(1) * * *

(vi) Method 25 or 25A of appendix A—7 to 40 CFR part 60 must be used to

determine total gaseous organic matter concentration. Use the same test method for both the inlet and outlet measurements which must be conducted simultaneously. You must submit notice of the intended test method to the Administrator for approval along with notification of the performance test required under § 63.7(b). You must use method 25A if any of the conditions described in paragraphs (e)(1)(vi)(A) through (D) of this section apply to the control device.

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Subpart ZZZZ—National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines

■ 22. Revise table 4 to subpart ZZZZ of part 63 to read as follows:

Table 4 to Subpart ZZZZ of Part 63—Requirements for Performance Tests

As stated in §§ 63.6610, 63.6611, 63.6620, and 63.6640, you must comply with the following requirements for performance tests for stationary RICE:

For each . . .	Complying with the requirement to . . .	You must . . .	Using . . .	According to the following requirements . . .
1. 2SLB, 4SLB, and CI stationary RICE.	a. Reduce CO emissions.	<p>i. Select the sampling port location and the number/location of traverse points at the inlet and outlet of the control device; and</p> <p>ii. Measure the O₂ at the inlet and outlet of the control device; and</p> <p>iii. Measure the CO at the inlet and the outlet of the control device; and</p> <p>iv. Measure moisture content at the inlet and outlet of the control device as needed to determine CO and O₂ concentrations on a dry basis.</p>	<p>.....</p> <p>(1) Method 3 or 3A or 3B of 40 CFR part 60, appendix A–2, or ASTM D6522–00 (Reapproved 2005)^{1 3} (heated probe not necessary).</p> <p>(2) ASTM D6522–00 (Reapproved 2005)^{1 2 3} (heated probe not necessary) or method 10 of 40 CFR part 60, appendix A–4.</p> <p>(3) Method 4 of 40 CFR part 60, appendix A–3, or method 320 of 40 CFR part 63, appendix A, or ASTM D6348–03^{1 3}.</p>	<p>(a) For CO, O₂, and moisture measurement, ducts ≤6 inches in diameter may be sampled at a single point located at the duct centroid and ducts >6 and ≤12 inches in diameter may be sampled at 3 traverse points located at 16.7, 50.0, and 83.3% of the measurement line ('3-point long line'). If the duct is >12 inches in diameter and the sampling port location meets the two and half-diameter criterion of section 11.1.1 of method 1 of 40 CFR part 60, appendix A–1, the duct may be sampled at '3-point long line'; otherwise, conduct the stratification testing and select sampling points according to section 8.1.2 of method 7E of 40 CFR part 60, appendix A–4.</p> <p>(b) Measurements to determine O₂ must be made at the same time as the measurements for CO concentration.</p> <p>(c) The CO concentration must be at 15 percent O₂, dry basis.</p> <p>(d) Measurements to determine moisture content must be made at the same time and location as the measurements for CO concentration.</p>

For each . . .	Complying with the requirement to . . .	You must . . .	Using . . .	According to the following requirements . . .
2. 4SRB stationary RICE.	a. Reduce formaldehyde or THC emissions.	<p>i. Select the sampling port location and the number/location of traverse points at the inlet and outlet of the control device; and</p> <p>ii. Measure O₂ at the inlet and outlet of the control device; and</p> <p>iii. Measure moisture content at the inlet and outlet of the control device as needed to determine formaldehyde or THC and O₂ concentrations on a dry basis; and</p> <p>iv. If demonstrating compliance with the formaldehyde percent reduction requirement, measure formaldehyde at the inlet and the outlet of the control device.</p> <p>v. If demonstrating compliance with the THC percent reduction requirement, measure THC at the inlet and the outlet of the control device.</p>	<p>(1) Method 3 or 3A or 3B of 40 CFR part 60, appendix A–2, or ASTM D6522–00 (Reapproved 2005)¹³ (heated probe not necessary).</p> <p>(2) Method 4 of 40 CFR part 60, appendix A–3, or method 320 of 40 CFR part 63, appendix A, or ASTM D6348–03¹³.</p> <p>(3) Method 320 or 323 of 40 CFR part 63, appendix A; or ASTM D6348–03,¹³ provided in ASTM D6348–03 Annex A5 (Analyte Spiking Technique), the percent R must be greater than or equal to 70 and less than or equal to 130.</p> <p>(4) (1) Method 25A, reported as propane, of 40 CFR part 60, appendix A–7.</p>	<p>(a) For formaldehyde, THC, O₂, and moisture measurement, ducts ≤6 inches in diameter may be sampled at a single point located at the duct centroid and ducts >6 and ≤12 inches in diameter may be sampled at 3 traverse points located at 16.7, 50.0, and 83.3% of the measurement line ('3-point long line'). If the duct is >12 inches in diameter and the sampling port location meets the two and half-diameter criterion of section 11.1.1 of method 1 of 40 CFR part 60, appendix A, the duct may be sampled at '3-point long line'; otherwise, conduct the stratification testing and select sampling points according to section 8.1.2 of method 7E of 40 CFR part 60, appendix A.</p> <p>(b) Measurements to determine O₂ concentration must be made at the same time as the measurements for formaldehyde or THC concentration.</p> <p>(c) Measurements to determine moisture content must be made at the same time and location as the measurements for formaldehyde or THC concentration.</p> <p>(d) Formaldehyde concentration must be at 15 percent O₂, dry basis. Results of this test consist of the average of the three 1-hour or longer runs.</p> <p>(e) THC concentration must be at 15 percent O₂, dry basis. Results of this test consist of the average of the three 1-hour or longer runs.</p>
3. Stationary RICE . . .	a. Limit the concentration of formaldehyde or CO in the stationary RICE exhaust.	<p>i. Select the sampling port location and the number/location of traverse points at the exhaust of the stationary RICE; and</p> <p>ii. Determine the O₂ concentration of the stationary RICE exhaust at the sampling port location; and</p> <p>iii. Measure moisture content of the stationary RICE exhaust at the sampling port location as needed to determine formaldehyde or CO and O₂ concentrations on a dry basis; and</p> <p>iv. Measure formaldehyde at the exhaust of the stationary RICE; or</p>	<p>(1) Method 3 or 3A or 3B of 40 CFR part 60, appendix A–2, or ASTM D6522–00 (Reapproved 2005)¹³ (heated probe not necessary).</p> <p>(2) Method 4 of 40 CFR part 60, appendix A–3, or method 320 of 40 CFR part 63, appendix A, or ASTM D6348–03¹³.</p> <p>(3) Method 320 or 323 of 40 CFR part 63, appendix A; or ASTM D6348–03,¹³ provided in ASTM D6348–03 Annex A5 (Analyte Spiking Technique), the percent R must be greater than or equal to 70 and less than or equal to 130.</p>	<p>(a) For formaldehyde, CO, O₂, and moisture measurement, ducts ≤6 inches in diameter may be sampled at a single point located at the duct centroid and ducts >6 and ≤12 inches in diameter may be sampled at 3 traverse points located at 16.7, 50.0, and 83.3% of the measurement line ('3-point long line'). If the duct is >12 inches in diameter and the sampling port location meets the two and half-diameter criterion of section 11.1.1 of method 1 of 40 CFR part 60, appendix A, the duct may be sampled at '3-point long line'; otherwise, conduct the stratification testing and select sampling points according to section 8.1.2 of method 7E of 40 CFR part 60, appendix A. If using a control device, the sampling site must be located at the outlet of the control device.</p> <p>(b) Measurements to determine O₂ concentration must be made at the same time and location as the measurements for formaldehyde or CO concentration.</p> <p>(c) Measurements to determine moisture content must be made at the same time and location as the measurements for formaldehyde or CO concentration.</p> <p>(d) Formaldehyde concentration must be at 15 percent O₂, dry basis. Results of this test consist of the average of the three 1-hour or longer runs.</p>

For each . . .	Complying with the requirement to . . .	You must . . .	Using . . .	According to the following requirements . . .
		v. Measure CO at the exhaust of the stationary RICE.	(4) Method 10 of 40 CFR part 60, appendix A–4, ASTM D6522–00 (2005), ^{1,3} method 320 of 40 CFR part 63, appendix A, or ASTM D6348–03 ^{1,3} .	(e) CO concentration must be at 15 percent O ₂ , dry basis. Results of this test consist of the average of the three 1-hour or longer runs.

¹ You may also use methods 3A and 10 as options to ASTM–D6522–00 (2005).

² You may obtain a copy of ASTM–D6348–03 from at least one of the following addresses: American Society for Testing and Materials, 100 Barr Harbor Drive, West Conshohocken, PA 19428–2959, or University Microfilms International, 300 North Zeeb Road, Ann Arbor, MI 48106.

³ Incorporated by reference, see § 63.14.

Subpart P P P P P—National Emission Standards for Hazardous Air Pollutants for Engine Test Cells/Stands

- 23. Amend § 63.9306 by revising paragraph (d)(2)(iv) to read as follows:

§ 63.9306 What are my continuous parameter monitoring system (CPMS) installation, operation, and maintenance requirements?

* * * * *

(d) * * *

(2) * * *

(iv) Using a pressure sensor with measurement sensitivity of 0.002 inch

water, check gauge calibration quarterly and transducer calibration monthly.

* * * * *

- 24. Amend § 63.9322 by revising paragraph (a)(1) to read as follows:

§ 63.9322 How do I determine the emission capture system efficiency?

* * * * *

(a) * * *

(1) The capture system meets the criteria in method 204 of appendix M to 40 CFR part 51 for a permanent total enclosure (PE) and directs all the exhaust gases from the enclosure to an add-on control device.

* * * * *

Subpart U U U U U—National Emission Standards for Hazardous Air Pollutants: Coal- and Oil-Fired Electric Utility Steam Generating Units

- 25. Revise table 5 to subpart U U U U U of part 63 to read as follows:

Table 5 to Subpart U U U U U of Part 63—Performance Testing Requirements

As stated in § 63.10007, you must comply with the following requirements for performance testing for existing, new or reconstructed affected sources: ¹

BILLING CODE 6560–50–P

To conduct a performance test for the following pollutant . . .	Using . . .	You must perform the following activities, as applicable to your input- or output-based emission limit . . .	Using . . . ²
1. Filterable Particulate matter (PM)	Emissions Testing	a. Select sampling ports location and the number of traverse points	Method 1 at appendix A-1 to part 60 of this chapter.
		b. Determine velocity and volumetric flow-rate of the stack gas	Method 2, 2A, 2C, 2F, 2G or 2H at appendix A-1 or A-2 to part 60 of this chapter.
		c. Determine oxygen and carbon dioxide concentrations of the stack gas	Method 3A or 3B at appendix A-2 to part 60 of this chapter, or ANSI/ASME PTC 19.10-1981. ³
		d. Measure the moisture content of the stack gas	Method 4 at appendix A-3 to part 60 of this chapter.
		e. Measure the filterable PM concentration	Methods 5 and 5I at appendix A-3 to part 60 of this chapter. For positive pressure fabric filters, method 5D at appendix A-3 to part 60 of this chapter for filterable PM emissions. Note that the method 5 or 5I front half temperature shall be 160° ±14 °C (320° ±25 °F).
		f. Convert emissions concentration to lb/MMBtu or lb/MWh emissions rates	Method 19 F-factor methodology at appendix A-7 to part 60 of this chapter or calculate using mass emissions rate and gross output data (see § 63.10007(e)).
	OR	OR	
	PM CEMS	a. Install, certify, operate, and maintain the PM CEMS	Performance Specification 11 at appendix B to part 60 of this chapter and Procedure 2 at appendix F to part 60 of this chapter.
		b. Install, certify, operate, and maintain the diluent gas, flow rate, and/or	Part 75 of this chapter and § 63.10010(a) through (d).

		moisture monitoring systems	
		c. Convert hourly emissions concentrations to 30 boiler operating day rolling average lb/MMBtu or lb/MWh emissions rates	Method 19 F-factor methodology at appendix A-7 to part 60 of this chapter or calculate using mass emissions rate and gross output data (see § 63.10007(e)).
2. Total or individual non-Hg HAP metals	Emissions Testing	a. Select sampling ports location and the number of traverse points	Method 1 at appendix A-1 to part 60 of this chapter.
		b. Determine velocity and volumetric flow-rate of the stack gas	Method 2, 2A, 2C, 2F, 2G or 2H at appendix A-1 or A-2 to part 60 of this chapter.
		c. Determine oxygen and carbon dioxide concentrations of the stack gas	Method 3A or 3B at appendix A-2 to part 60 of this chapter, or ANSI/ASME PTC 19.10-1981. ³
		d. Measure the moisture content of the stack gas	Method 4 at appendix A-3 to part 60 of this chapter.
		e. Measure the HAP metals emissions concentrations and determine each individual HAP metals emissions concentration, as well as the total filterable HAP metals emissions concentration and total HAP metals emissions concentration	Method 29 at appendix A-8 to part 60 of this chapter. For liquid oil-fired units, Hg is included in HAP metals and you may use method 29, method 30B at appendix A-8 to part 60 of this chapter or ASTM D6784-16, ³ for method 29 or ASTM D 6784-16, you must report the front half and back half results separately. When using method 29, report metals matrix spike and recovery levels.
		f. Convert emissions concentrations (individual HAP metals, total filterable HAP metals, and total HAP metals) to lb/MMBtu or lb/MWh emissions rates	Method 19 F-factor methodology at appendix A-7 to part 60 of this chapter or calculate using mass emissions rate and gross output data (see § 63.10007(e)).
3. Hydrogen chloride (HCl) and hydrogen fluoride (HF)	Emissions Testing	a. Select sampling ports location and the number of traverse points	Method 1 at appendix A-1 to part 60 of this chapter.

		b. Determine velocity and volumetric flow-rate of the stack gas	Method 2, 2A, 2C, 2F, 2G or 2H at appendix A-1 or A-2 to part 60 of this chapter.
		c. Determine oxygen and carbon dioxide concentrations of the stack gas	Method 3A or 3B at appendix A-2 to part 60 of this chapter, or ANSI/ASME PTC 19.10-1981. ³
		d. Measure the moisture content of the stack gas	Method 4 at appendix A-3 to part 60 of this chapter.
		e. Measure the HCl and HF emissions concentrations	Method 26 or method 26A at appendix A-8 to part 60 of this chapter or method 320 at appendix A to part 63 of this chapter or ASTM D6348-03(R2010) ³ with
			(1) the following conditions when using ASTM D6348-03(R2010):
			(A) The test plan preparation and implementation in the Annexes to ASTM D6348-03(R2010), sections A1 through A8 are mandatory;
			(B) For ASTM D6348-03(R2010) Annex A5 (Analyte Spiking Technique), the percent (%) R must be determined for each target analyte (see Equation A5.5);
			(C) For the ASTM D6348-03(R2010) test data to be acceptable for a target analyte, %R must be $70\% \geq R \leq 130\%$; and
			(D) The %R value for each compound must be reported in the test report and all field measurements corrected with the calculated %R value for that compound using the following equation: $\text{Report Result} = \frac{(\text{Measured Concentration in Stack})}{\%R} \times 100$

To conduct a performance test for the following pollutant . . . (cont'd)	Using . . . (cont'd)	You must perform the following activities, as applicable to your input- or output-based emission limit . . . (cont'd)	Using . . . ² (cont'd)
			(2) spiking levels nominally no greater than two times the level corresponding to the applicable emission limit.
			Method 26A must be used if there are entrained water droplets in the exhaust stream.
		f. Convert emissions concentration to lb/MMBtu or lb/MWh emissions rates	Method 19 F-factor methodology at appendix A-7 to part 60 of this chapter or calculate using mass emissions rate and gross output data (see § 63.10007(e)).
	OR	OR	
	HCl and/or HF CEMS	a. Install, certify, operate, and maintain the HCl or HF CEMS	Appendix B of this subpart.
		b. Install, certify, operate, and maintain the diluent gas, flow rate, and/or moisture monitoring systems	Part 75 of this chapter and § 63.10010(a) through (d).
		c. Convert hourly emissions concentrations to 30 boiler operating day rolling average lb/MMBtu or lb/MWh emissions rates	Method 19 F-factor methodology at appendix A-7 to part 60 of this chapter or calculate using mass emissions rate and gross output data (see § 63.10007(e)).
4. Mercury (Hg)	Emissions Testing	a. Select sampling ports location and the number of traverse points	Method 1 at appendix A-1 to part 60 of this chapter or method 30B at appendix A-8 for method 30B point selection.
		b. Determine velocity and volumetric flow-rate of the stack gas	Method 2, 2A, 2C, 2F, 2G or 2H at appendix A-1 or A-2 to part 60 of this chapter.

		c. Determine oxygen and carbon dioxide concentrations of the stack gas	Method 3A or 3B at appendix A-1 to part 60 of this chapter, or ANSI/ASME PTC 19.10-1981. ³
		d. Measure the moisture content of the stack gas	Method 4 at appendix A-3 to part 60 of this chapter.
		e. Measure the Hg emission concentration	Method 30B at appendix A-8 to part 60 of this chapter, ASTM D6784-16, ³ or method 29 at appendix A-8 to part 60 of this chapter; for method 29 or ASTM D 6784-16, you must report the front half and back half results separately.
		f. Convert emissions concentration to lb/TBtu or lb/GWh emission rates	Method 19 F-factor methodology at appendix A-7 to part 60 of this chapter or calculate using mass emissions rate and gross output data (see § 63.10007(e)).
	OR	OR	
	Hg CEMS	a. Install, certify, operate, and maintain the CEMS	Sections 3.2.1 and 5.1 of appendix A of this subpart.
		b. Install, certify, operate, and maintain the diluent gas, flow rate, and/or moisture monitoring systems	Part 75 of this chapter and § 63.10010(a) through (d).
		c. Convert hourly emissions concentrations to 30 boiler operating day rolling average lb/TBtu or lb/GWh emissions rates	Section 6 of appendix A to this subpart.
	OR	OR	
	Sorbent trap monitoring system	a. Install, certify, operate, and maintain the sorbent trap monitoring system	Sections 3.2.2 and 5.2 of appendix A to this subpart.

		b. Install, operate, and maintain the diluent gas, flow rate, and/or moisture monitoring systems	Part 75 of this chapter and § 63.10010(a) through (d).
		c. Convert emissions concentrations to 30 boiler operating day rolling average lb/TBtu or lb/GWh emissions rates	Section 6 of appendix A to this subpart.
	OR	OR	
	LEE testing	a. Select sampling ports location and the number of traverse points	Single point located at the 10% centroidal area of the duct at a port location per method 1 at appendix A-1 to part 60 of this chapter or method 30B at appendix A-8 to part 60 of this chapter for method 30B point selection.
		b. Determine velocity and volumetric flow-rate of the stack gas	Method 2, 2A, 2C, 2F, 2G, or 2H at appendix A-1 or A-2 to part 60 of this chapter or flow monitoring system certified per appendix A of this subpart.
		c. Determine oxygen and carbon dioxide concentrations of the stack gas	Method 3A or 3B at appendix A-1 to part 60 of this chapter, or ANSI/ASME PTC 19.10-1981, ³ or diluent gas monitoring systems certified according to part 75 of this chapter.
		d. Measure the moisture content of the stack gas	Method 4 at appendix A-3 to part 60 of this chapter, or moisture monitoring systems certified according to part 75 of this chapter.
		e. Measure the Hg emission concentration	Method 30B at appendix A-8 to part 60 of this chapter; perform a 30 operating day test, with a maximum of 10 operating days per run (<i>i.e.</i> , per pair of sorbent traps) or sorbent trap monitoring system or Hg CEMS certified per appendix A of this subpart.
		f. Convert emissions concentrations from	Method 19 F-factor methodology at appendix A-7 to part 60 of this chapter

		the LEE test to lb/TBtu or lb/GWh emissions rates	or calculate using mass emissions rate and gross output data (see § 63.10007(e)).
		g. Convert average lb/TBtu or lb/GWh Hg emission rate to lb/year, if you are attempting to meet the 29.0 lb/year threshold	Potential maximum annual heat input in TBtu or potential maximum electricity generated in GWh.
5. Sulfur dioxide (SO ₂)	SO ₂ CEMS	a. Install, certify, operate, and maintain the CEMS	Part 75 of this chapter and § 63.10010(a) and (f).
		b. Install, operate, and maintain the diluent gas, flow rate, and/or moisture monitoring systems	Part 75 of this chapter and § 63.10010(a) through (d).
		c. Convert hourly emissions concentrations to 30 boiler operating day rolling average lb/MMBtu or lb/MWh emissions rates	Method 19 F-factor methodology at appendix A-7 to part 60 of this chapter or calculate using mass emissions rate and gross output data (see § 63.10007(e)).

¹ Regarding emissions data collected during periods of startup or shutdown, see §§ 63.10020(b) and (c) and 63.10021(h).

² See tables 1 and 2 to this subpart for required sample volumes and/or sampling run times.

³ Incorporated by reference, see § 63.14.

■ 26. Amend appendix A to subpart UUUUU of part 63 by revising sections 4.1.1.5 and 4.1.1.4.1 to read as follows:

Appendix A to Subpart UUUUU of Part 63—Hg Monitoring Provisions

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4. Certification and Recertification Requirements

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4.1.1.5 *Relative Accuracy Test Audit (RATA)*. Perform the RATA of the Hg CEMS at normal load. Acceptable Hg reference methods for the RATA include ASTM D6784–16 (IBR, see § 63.14) and methods 29, 30A, and 30B in appendix A–8 to part 60 of this chapter. When method 29 or ASTM D6784–16 is used, paired sampling trains are required, and the filterable portion of the sample need not be included when making comparisons to the Hg CEMS results for purposes of a RATA. To validate a method 29 or ASTM D6784–16 test run, calculate the relative deviation (RD) using equation A–1 of

this section, and assess the results as follows to validate the run. The RD must not exceed 10 percent, when the average Hg concentration is greater than 1.0 µg/dscm. If the RD specification is met, the results of the two samples shall be averaged arithmetically.

$$RD = \frac{|C_a - C_b|}{C_a + C_b} \times 100 \quad (\text{Eq. A-1})$$

Where:

RD = Relative Deviation between the Hg concentrations of samples “a” and “b” (percent),

C_a = Hg concentration of Hg sample “a” (µg/dscm), and

C_b = Hg concentration of Hg sample “b” (µg/dscm).

4.1.1.5.1 *Special Considerations*. A minimum of nine valid test runs must be performed, directly comparing the CEMS measurements to the reference method. More than nine test runs may be performed. If this option is chosen, the results from a maximum of three test runs may be rejected so long as the total number of test results used to determine the relative accuracy is greater than or equal to nine; however, all data must be reported including the rejected data. The minimum time per run is 21 minutes if method 30A is used. If method 29, method 30B, or ASTM D6784–16 is used, the time per run must be long enough to collect

a sufficient mass of Hg to analyze. Complete the RATA within 168 unit operating hours, except when method 29 or ASTM D6784–162 is used, in which case, up to 336 operating hours may be taken to finish the test.

* * * * *

- 27. Amend appendix A to part 63 by:
 - a. Redesignating section 6.2 under the heading “16.0 Alternative Procedures” as section 16.2 in method 315; and
 - b. In method 323:
 - i. Revising sections 10.1 and 10.3;
 - ii. In section 12.1:
 - A. Adding the entry “b” following the entry “B = estimated sampling rate, Lpm”; and
 - B. Revising the entry “K_c”; and
 - iii. Revising section 12.6.

The revisions and addition read as follows:

Appendix A to Part 63—Test Methods

* * * * *

Method 323—Measurement of Formaldehyde Emissions From Natural Gas-Fired Stationary Sources—Acetyl Acetone Derivatization Method

* * * * *

10.0 Calibration and Standardization

10.1 Spectrophotometer Calibration. Prepare a stock solution of 10 µg/mL formaldehyde. Prepare a series of calibration standards from the stock solution corresponding to 0.0, 0.5, 1.5, 3.5, 5.0, and 7.5 µg/mL formaldehyde. Mix 2.0 mL of each calibration standard with 2.0 mL of acetyl acetone reagent in screw cap vials, thoroughly mix the solution, and place the vials in a water bath (or heating block) at 60 °C for 10 minutes. Remove the vials and allow to cool to room temperature. Transfer each solution to a cuvette and measure the absorbance at 412 nm using the spectrophotometer. Develop a calibration curve (response vs. concentration) from the analytical results of these standards. The

acceptance criteria for the spectrophotometer calibration is a correlation coefficient of 0.99 or higher. If this criterion is not met, the calibration procedures should be repeated.

10.3 Calibration Checks. Calibration checks consisting of analyzing a mid-range standard separately prepared with each batch of samples. The calibration check standard must be prepared independent of the calibration stock solution. The result of the check standard must be within 10 percent of the theoretical value to be acceptable. If the acceptance criteria are not met, the standard must be reanalyzed. If still unacceptable, a new calibration curve must be prepared using freshly prepared standards.

12.0 Calculations and Data Analysis**12.1 Nomenclature**

* * * * *

b = the intercept of the calibration curve at zero concentration.

* * * * *

K_c = spectrophotometer calibration factor, slope of the least square regression line, absorbance/(µg/mL) (*Note:* Most spreadsheets are capable of calculating a least squares line, including slope, intercept, and correlation coefficient).

* * * * *

12.6 Mass of Formaldehyde in Liquid Sample

$$m = \frac{(A-b)*F}{K_c} (V_t) \left(\frac{1 \text{ mg}}{1000 \mu\text{g}} \right) \text{ Eq. 323-5}$$

* * * * *

[FR Doc. 2023-04956 Filed 3-28-23; 8:45 am]

BILLING CODE 6560-50-C

ENVIRONMENTAL PROTECTION AGENCY**40 CFR Part 52**

[EPA-R04-OAR-2021-0769; FRL-10576-02-R4]

Air Plan Approval; NC; Transportation Conformity

AGENCY: Environmental Protection Agency (EPA).

ACTION: Final rule.

SUMMARY: The Environmental Protection Agency (EPA) is approving State Implementation Plan (SIP) revisions submitted by the State of North Carolina, through the North Carolina Department of Environmental Quality (DEQ), Division of Air Quality (DAQ) on September 24, 2021. The SIP revisions replace previously approved memoranda of agreement (MOAs) with thirteen updated MOAs outlining transportation conformity criteria and procedures related to interagency consultation, conflict resolution, public participation, and enforceability of certain transportation-related control and mitigation measures. EPA is approving North Carolina's September 24, 2021, SIP revisions as they are consistent with the applicable provisions of the Clean Air Act (CAA or Act).

DATES: This rule is effective April 28, 2023.

ADDRESSES: EPA has established a docket for this action under Docket Identification EPA-R04-OAR-2021-

0769. All documents in the docket are listed on the *regulations.gov* website. Although listed in the index, some information may not be publicly available, *i.e.*, Confidential Business Information or other information whose disclosure is restricted by statute. Certain other material, such as copyrighted material, is not placed on the internet and will be publicly available only in hard copy form. Publicly available docket materials are available either electronically through *www.regulations.gov* or in hard copy at the Air Regulatory Management Section, Air Planning and Implementation Branch, Air and Radiation Division, U.S. Environmental Protection Agency, Region 4, 61 Forsyth Street SW, Atlanta, Georgia 30303-8960. EPA requests that, if possible, you contact the person listed in the **FOR FURTHER INFORMATION CONTACT** section to schedule your inspection. The Regional Office's official hours of business are Monday through Friday 8:30 a.m. to 4:30 p.m., excluding Federal holidays.

FOR FURTHER INFORMATION CONTACT: Kelly Sheckler, Air Regulatory Management Section, Air Planning and Implementation Branch, Air and Radiation Division, Region 4, U.S. Environmental Protection Agency, 61 Forsyth Street SW, Atlanta, Georgia 30303-8960. The telephone number is (404) 562-9222 Ms. Sheckler can also be reached via electronic mail at *sheckler.kelly@epa.gov*.

SUPPLEMENTARY INFORMATION:**I. Background**

As described in a notice of proposed rulemaking (NPRM) published on February 7, 2023 (88 FR 7903), CAA section 176(c)(4)(E) and 40 CFR

51.390(b) require states to develop conformity SIPs that address three specific provisions of federal regulations. First, EPA's transportation conformity rule requires states to develop their own processes and procedures which meet the criteria in 40 CFR 93.105 for interagency consultation and resolution of conflicts among the federal, state, and local agencies. The SIP revision must include processes and procedures to be followed by the metropolitan planning organization (MPO), state Department of Transportation (DOT), and the United States Department of Transportation (USDOT) in consultation with the state and local air quality agencies and EPA before making conformity determinations. The conformity SIP revision must also include processes and procedures for the state and local air quality agencies and EPA to coordinate the development of applicable SIPs with MPOs, state DOTs and the USDOT.

States may choose to develop, in place of regulations, an MOA which establishes the roles and procedures for transportation conformity. The MOA includes the detailed consultation procedures developed for that particular area. The MOAs are enforceable through the signature of all the transportation and air quality agencies, including the USDOT's Federal Highway Administration, USDOT's Federal Transit Administration, and EPA.

North Carolina's September 24, 2021, conformity SIP revisions add new interagency partners and MPOs, establish new procedures for interagency consultation, dispute resolution, public participation and enforceability of certain transportation-