EPA is soliciting public comments on the issues discussed in this proposal or on other relevant matters. These comments will be considered before EPA takes final action. Interested parties may participate in the Federal rulemaking procedure by submitting comments to this proposed rule by following the instructions listed in the ADDRESSES section of this Federal Register.

V. Statutory and Executive Order Reviews

Under the Clean Air Act, the Administrator is required to approve a SIP submission that complies with the provisions of the Act and applicable Federal regulations. 42 U.S.C. 7410(k); 40 CFR 52.02(a). Thus, in reviewing SIP submissions, EPA’s role is to approve state choices, provided that they meet the criteria of the Clean Air Act. Accordingly, this proposed action merely approves state law as meeting Federal requirements and does not impose additional requirements beyond those imposed by state law. For that reason, this proposed action:

• Is not a significant regulatory action subject to review by the Office of Management and Budget under Executive Orders 12866 (58 FR 51735, October 4, 1993) and 13563 (76 FR 3821, January 21, 2011);
• Does not impose an information collection burden under the provisions of the Paperwork Reduction Act (44 U.S.C. 3501 et seq.);
• Is certified as not having a significant economic impact on a substantial number of small entities under the Regulatory Flexibility Act (5 U.S.C. 601 et seq.);
• Does not contain any unfunded mandate or significantly or uniquely affect small governments, as described in the Unfunded Mandates Reform Act of 1995 (Pub. L. 104–4); and
• Does not have Federalism implications as specified in Executive Order 13132 (64 FR 43255, August 10, 1999);
• Is not an economically significant regulatory action based on health or safety risks subject to Executive Order 13045 (62 FR 19885, April 23, 1997);
• Is not a significant regulatory action subject to Executive Order 13211 (66 FR 28355, May 22, 2001);
• Is not subject to requirements of Section 12(d) of the National Technology Transfer and Advancement Act of 1995 (15 U.S.C. 272 note) because application of those requirements would be inconsistent with the Clean Air Act; and
• Does not provide EPA with the discretionary authority to address, as appropriate, disproportionate human health or environmental effects, using practicable and legally permissible methods, under Executive Order 12898 (59 FR 7629, February 16, 1994).

In addition, the SIP is not approved to apply on any Indian reservation land or in any other area where EPA or an Indian tribe has demonstrated that a tribe has jurisdiction. In those areas of Indian country, the rule does not have tribal implications and will not impose substantial direct costs on tribal governments or preempt tribal law as specified by Executive Order 13175 (65 FR 67249, November 9, 2000).

List of Subjects in 40 CFR Part 52

Environmental protection, Air pollution control, Carbon monoxide, Incorporation by reference, Intergovernmental relations, Lead, Nitrogen dioxide, Ozone, Particulate matter, Reporting and recordkeeping requirements, Sulfur oxides, Volatile organic compounds.

Dated: June 22, 2018.

Alexandra Dunn, Regional Administrator, EPA Region 1.

[FR Doc. 2018–14068 Filed 6–28–18; 8:45 am]

BILLING CODE 6560–50–P

ENvironmental Protection AGENCY

40 CFR Part 52


Air Plan Approval; Tennessee; Attainment Plan for Sullivan County SO2 Nonattainment Area

AGENCY: Environmental Protection Agency (EPA).

ACTION: Proposed rule.

SUMMARY: The Environmental Protection Agency (EPA) is proposing to approve a State Implementation Plan (SIP) revision submitted by the State of Tennessee, through the Tennessee Department of Environment and Conservation (TDEC), to EPA on May 12, 2017, for attaining the 2010 1-hour sulfur dioxide (SO2) primary national ambient air quality standard (NAAQS) for the Sullivan County SO2 nonattainment area (hereafter referred to as the “Sullivan County Area” or “Area”). The Sullivan County Area is comprised of a portion of Sullivan County in Tennessee surrounding the Eastman Chemical Company (hereafter referred to as “Eastman”). This plan (herein called a “nonattainment plan or SIP” or “attainment plan or SIP”) includes Tennessee’s attainment demonstration and other elements required under the Clean Air Act (CAA or Act). In addition to an attainment demonstration, the plan addresses the requirement for meeting reasonable further progress (RFP) toward attainment of the NAAQS, reasonably available control measures and reasonably available control technology (RACM/RACT), base-year and projection-year emissions inventories, enforceable emissions limitations and control measures, and contingency measures. EPA proposes to conclude that Tennessee has appropriately demonstrated that the plan’s provisions provide for attainment of the 2010 1-hour primary SO2 NAAQS in the Sullivan County Area and that the plan meets the other applicable requirements under the CAA.

DATES: Comments must be received on or before July 30, 2018.

ADDRESSES: Submit your comments, identified by Docket ID No. EPA–R04–OAR–2017–0626 at http://www.regulations.gov. Follow the online instructions for submitting comments. Once submitted, comments cannot be edited or removed from Regulations.gov. EPA may publish any comment received to its public docket. Do not submit electronically any information you consider to be Confidential Business Information (CBI) or other information whose disclosure is restricted by statute. Multimedia submissions (audio, video, etc.) must be accompanied by a written comment. The written comment is considered the official comment and should include discussion of all points you wish to make. EPA will generally not consider comments or comment contents located outside of the primary submission (i.e., on the web, cloud, or other file sharing system). For additional submission methods, the full EPA public comment policy, information about CBI or multimedia submissions, and general guidance on making effective comments, please visit http://www2.epa.gov/dockets/commenting-epa-dockets.

FOR FURTHER INFORMATION CONTACT: D. Brad Akers, Air Regulatory Management Section, Air Planning and Implementation Branch, Air, Pesticides and Toxics Management Division, U.S. Environmental Protection Agency, Region 4, 61 Forsyth Street SW, Atlanta, Georgia 30303–8960. Mr. Akers can be reached via telephone at (404) 562–9089 or via electronic mail at akers.brad@epa.gov.

SUPPLEMENTARY INFORMATION:

I. Requirement for Tennessee to Submit an SO2 Attainment Plan for the Sullivan County Area.
II. Requirements for SO2 Attainment Plans
III. Attainment Demonstration and Longer Term Averaging

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   A. Emissions Inventory
   B. Attainment Modeling Demonstration
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VII. EPA’s Proposed Action
VIII. Statutory and Executive Orders

I. Requirement for Tennessee To Submit an SO2 Attainment Plan for the Sullivan County Area

On June 22, 2010, EPA promulgated a new 1-hour primary SO2 NAAQS of 75 parts per billion (ppb), which is met at an ambient air quality monitoring site when the 3-year average of the annual 99th percentile of daily maximum 1-hour average concentrations does not exceed 75 ppb, as determined in accordance with appendix T of 40 CFR part 50. See 75 FR 35520, codified at 40 CFR 50.17(a)–(b). On August 5, 2013, EPA designated a first set of 29 areas of the country as nonattainment for the 2010 SO2 NAAQS. See 78 FR 47191, codified at 40 CFR part 81, subpart C. These designations included the Sullivan County Area, which encompasses the primary SO2 emitting source Eastman and the nearby SO2 monitor (Air Quality Site ID: 47–163–0007). These area designations were effective October 4, 2013. Section 191(a) of the CAA directs states to submit SIPs for areas designated as nonattainment for the SO2 NAAQS to EPA within 18 months of the effective date of the designation, i.e., by no later than April 4, 2015 in this case. Under CAA section 192(a) these SIPs are required to demonstrate that their respective areas will attain the NAAQS as expeditiously as practicable, but no later than 5 years from the effective date of designation, which is October 4, 2018. In addition, sections 110(a) and 172(c), as well as EPA regulations at 40 CFR part 51, set forth substantive elements each SIP must contain to be approved by EPA. For the Sullivan County Area (and many other areas), EPA published a notice on March 3, 2016, that Tennessee (and other pertinent states) had failed to submit the required SO2 nonattainment plan by this submittal deadline. See 81 FR 14736. This finding initiated a deadline under CAA section 179(a) for the potential imposition of new source review and highway funding sanctions. However, pursuant to Tennessee’s submittal of May 12, 2017, and EPA’s subsequent letter dated October 10, 2017, to Tennessee finding the submittal complete and noting the termination of these sanctions deadlines, these sanctions under section 179(a) will not be imposed as a result of Tennessee having missed the April 4, 2015 deadline. Under CAA section 110(c), the March 18, 2016 finding also triggered a requirement that EPA promulgate a federal implementation plan (FIP) within two years of the finding unless (a) the state has made the necessary complete submittal and (b) EPA has approved the submittal as meeting applicable requirements.

II. Requirements for SO2 Attainment Plans

To be approved by EPA, nonattainment areas must provide SIPs meeting the applicable requirements of the CAA, and specifically CAA sections 110(a), 172, 191 and 192 for SO2. EPA’s regulations governing nonattainment SIPs are set forth at 40 CFR part 51, with specific procedural requirements and control strategy requirements residing at subparts F and G, respectively. Soon after Congress enacted the 1990 Amendments to the CAA, EPA issued comprehensive guidance on SIPs, in a document entitled the “General Preamble for the Implementation of Title I of the Clean Air Act Amendments of 1990,” published at 57 FR 13498 (April 16, 1992) (General Preamble). Among other things, the General Preamble addressed SO2 SIPs and fundamental principles for SIP control strategies. Id., at 13545–49, 13567–68. On April 23, 2014, EPA issued recommended guidance for meeting the statutory requirements in SO2 SIPs under the 2010 revised NAAQS, in a document entitled, “Guidance for 1-Hour SO2 Nonattainment Area SIP Submissions,” available at https://www.epa.gov/sites/production/files/2016-06/documents/20140423guidance_nonattainment_sip.pdf (hereafter referred to as EPA’s April 2014 SO2 guidance or guidance). In this guidance EPA described the statutory requirements for SO2 SIPs for nonattainment areas, which includes: An accurate emissions inventory of current emissions for all sources of SO2 within the nonattainment area; an attainment demonstration; and demonstration of RFP; implementation of RACM (including RACT); new source review (NSR); enforceable emissions limitations and control measures; and adequate contingency measures for the affected area.

For EPA to fully approve a SIP as meeting the requirements of CAA sections 110, 172 and 191–192, and EPA’s regulations at 40 CFR part 51, the SIP for the affected area needs to demonstrate to EPA’s satisfaction that each of the aforementioned requirements have been met. Under CAA sections 110(l) and 193, EPA may not approve a SIP that would interfere with any applicable requirement concerning NAAQS attainment and RFP, or any other applicable requirement, and no requirement in effect (or required to be adopted by an order, settlement, agreement, or plan in effect before November 15, 1990) in any area which is a nonattainment area for any air pollutant, may be modified in any manner unless it insures equivalent or greater emission reductions of such air pollutant.

III. Attainment Demonstration and Longer Term Averaging

CAA sections 172(c)(1) and (6) direct states with areas designated as nonattainment to demonstrate that the submitted plan provides for attainment of the NAAQS. 40 CFR part 51, subpart G further delineates the control strategy requirements that SIPs must meet, and EPA has long required that all SIPs and control strategies reflect four fundamental principles of quantification, enforceability, replicability, and accountability. General Preamble, at 13567–68. SO2 attainment plans must consist of two components: (1) Emission limits and other control measures that assure implementation of permanent, enforceable and necessary emission controls, and (2) a modeling analysis which meets the requirements of 40 CFR part 51, appendix W which demonstrates that these emission limits and control measures provide for timely attainment of the primary SO2 NAAQS as expeditiously as practicable, but by no later than the attainment date for the affected area. In all cases, the emission limits and control measures must be accompanied by appropriate methods and conditions to determine compliance with the respective emission limits and control measures and must be quantifiable (i.e., a specific amount of emission reduction can be ascribed to the measures), fully-enforceable (specifying clear, unambiguous and measurable requirements for which compliance can be practically determined), replicable (the procedures for determining compliance are
sufficiently specific and non-subjective so that two independent entities applying the procedures would obtain the same result), and accountable (source specific limits must be permanent and must reflect the assumptions used in the SIP demonstrations).

EPA’s April 2014 SO2 guidance recommends that the emission limits be expressed as short-term average limits (e.g., addressing emissions averaged over one or three hours), but also describes the option to utilize emission limits with longer averaging times of up to 30 days so long as the state meets various suggested criteria. See EPA’s April 2014 SO2 guidance, pp. 22 to 39. The guidance recommends that—should states and sources utilize longer averaging times—the longer term average limit should be set at an adjusted level that reflects a stringency comparable to the 1-hour average limit at the critical emission value (CEV) shown by modeling to provide for attainment that the plan otherwise would have set.

EPA’s April 2014 SO2 guidance provides an extensive discussion of EPA’s rationale for concluding that appropriately set comparably stringent limitations based on averaging times as long as 30 days can be found to provide for attainment of the 2010 SO2 NAAQS. In evaluating this option, EPA considered the nature of the standard, conducted detailed analyses of the impact of use of 30-day average limits on the prospects for attaining the standard, and carefully reviewed how best to achieve an appropriate balance among the various factors that warrant consideration in judging whether a state’s plan provides for attainment. Id. at pp. 22 to 39. See also id. at Appendices B, C, and D.

As specified in 40 CFR 50.17(b), the 1-hour primary SO2 NAAQS is met at an ambient air quality monitoring site when the 3-year average of the annual 99th percentile of daily maximum 1-hour average concentrations is less than or equal to 75 ppb. In a year with 365 days of valid monitoring data, the 99th percentile would be the fourth highest maximum daily hourly concentration in a year with 365 days with valid data. As a hypothetical example to illustrate these points, suppose a source always emits 1,000 pounds of SO2 per hour, which results in air quality at the level of the NAAQS (i.e., results in a single hour value of 75 ppb). Suppose further that in an “average year,” these emissions cause the 5-highest maximum
daily average 1-hour concentrations to be 100 ppb, 90 ppb, 80 ppb, 75 ppb, and 70 ppb. Then suppose that the source becomes subject to a 30-day average emission limit of 700 pounds per hour (lbs/hr). It is theoretically possible for a source meeting this limit to have emissions that occasionally exceed 1,000 pounds per hour, but with a typical emissions profile, emissions would much more commonly be between 600 and 800 lbs/hr. In this simplified example, assume a zero-background concentration, which allows one to assume a linear relationship between emissions and air quality. (A nonzero background concentration would make the mathematics more difficult but would give similar results.) Air quality will depend on what emissions happen on what critical hours, but suppose that emissions at the relevant times on these 5 days are 800 lbs/hr, 1,100 lbs/hr, 500 lbs/hr, 900 lbs/hr, and 1,200 lbs/hr, respectively. (This is a conservative example because the average of these emissions, 900 lbs/hr, is well over the 30-day average emission limit.) These emissions would result in daily maximum 1-hour concentrations of 80 ppb, 99 ppb, 40 ppb, 67.5 ppb, and 84 ppb. In this example, the fifth day would have an exceedance that would not otherwise have occurred, but the third and fourth days would not have exceedances that would have occurred. In this example, the fourth highest maximum daily concentration under the 30-day average would be 67.5 ppb.

This simplified example illustrates the findings of a more complicated statistical analysis that EPA conducted using a range of scenarios using actual plant data. As described in Appendix B of EPA’s April 2014 SO2 guidance, EPA found that the requirement for lower average emissions is highly likely to yield better air quality than is required with a comparably stringent 1-hour limit. Based on analyses described in appendix B of its 2014 guidance, EPA expects that an emission profile with maximum allowable emissions under an appropriately set comparably stringent 30-day average limit is likely to have the net effect of having a lower number of exceedances and better air quality than an emission profile with maximum allowable emissions under a 1-hour emission limit at the critical emission value. This result provides a compelling policy rationale for allowing the use of a longer averaging period, in appropriate circumstances where the facts indicate this result can be expected to occur.

The question then becomes whether this approach—which is likely to produce a lower number of overall exceedances even though it may produce some unexpected exceedances above the critical emission value—meets the requirements in sections 110(a)(1) and (2), 172(c)(1) and (6) for SIPs to contain enforceable emissions limitations and other control measures to “provide for attainment” of the NAAQS. For SO2, as for other pollutants, it is generally impossible to design a nonattainment plan in the present that will guarantee that attainment will occur in the future. A variety of factors can cause a well-designed attainment plan to fail and unexpectedly not result in attainment, for example if meteorology occurs that is more conducive to poor air quality than was anticipated in the plan. Therefore, in determining whether a plan meets the requirement to provide for attainment, EPA’s task is commonly to judge not whether the plan provides absolute certainty that attainment will in fact occur, but rather whether the plan provides an adequate level of confidence of prospective NAAQS attainment. From this perspective, in evaluating use of a 30-day average limit, EPA must weigh the likely net effect on air quality. Such an evaluation must consider the risk that occasions with meteorology conducive to high concentrations will have elevated emissions leading to exceedances that would not otherwise have occurred, and also weigh the likelihood that the requirement for lower emissions on average will result in days not having exceedances that would have been expected with emissions at the critical emissions value. Additional policy considerations, such as in this case the desirability of accommodating real world emissions variability without significant risk of violations, are also appropriate factors for EPA to weigh in judging whether a plan provides a reasonable degree of confidence that the plan will lead to attainment. Based on these considerations, especially given the high likelihood that a continuously enforceable limit averaged over as long as 30 days, determined in accordance with EPA’s guidance, will result in attainment, EPA believes as a general matter that such limits, if appropriately determined, can reasonably be considered to provide for attainment of the 2010 SO2 NAAQS.

The April 2014 SO2 guidance offers specific recommendations for determining the likely longer term average limit. The recommended method starts with determination of the 1-hour emission limit that would provide for attainment (i.e., the critical emission value), and applies an adjustment factor to determine the (lower) level of the longer term average emission limit that would be estimated to have a degree of stringency comparable to the otherwise necessary 1-hour emission limit. This method uses a database of continuous emission data reflecting the type of control that the source will be using to comply with the SIP emission limits, which (if compliance requires new controls) may require use of an emission database from another source. The recommended method involves using these data to compute a complete set of emission averages, computed according to the averaging time and averaging procedures of the prospective emission limitation. In this recommended method, the ratio of the 99th percentile among these long term averages to the 99th percentile of the 1-hour values represents an adjustment factor that may be multiplied by the candidate 1-hour emission limit to determine a longer term average emission limit that may be considered comparably stringent. The guidance also addresses a variety of related topics, such as the potential utility of setting supplemental emission limits, such as mass-based limits, to reduce the likelihood and/or magnitude of elevated emission levels that might occur under the longer term emission rate limit.

Preferred air quality models for use in regulatory applications are described in Appendix A of EPA’s Guideline on Air Quality Models (40 CFR part 51, appendix W). In 2005, EPA promulgated AERMOD as the Agency’s preferred near-field dispersion modeling for a wide range of regulatory applications addressing stationary sources (for example in estimating SO2 concentrations) in all types of terrain based on extensive developmental and performance evaluation. Supplemental guidance on modeling for purposes of demonstrating attainment of the SO2 NAAQS is provided in appendix A to the April 2014 SO2 guidance document referenced above. Appendix A provides extensive guidance on the modeling domain, the source inputs, assorted types of meteorological data, and background concentrations. Consistency with the recommendations in this guidance is generally necessary for the attainment demonstration to offer
adequately reliable assurance that the plan provides for attainment.

As stated previously, attainment demonstrations for the 2010 1-hour primary SO\textsubscript{2} NAAQS must demonstrate future attainment and maintenance of the NAAQS in the entire area designated as nonattainment (i.e., not just at the violating monitor) by using air quality dispersion modeling (see appendix W to 40 CFR part 51) to show that the mix of sources and enforceable control measures and emission rates in an identified area will not lead to a violation of the SO\textsubscript{2} NAAQS. For a short-term (i.e., 1-hour) standard, EPA believes that dispersion modeling, using allowable emissions and addressing stationary sources in the affected area (and in some cases sources located outside the nonattainment area which may affect attainment in the area) is technically appropriate, efficient and effective in demonstrating attainment in nonattainment areas because it takes into consideration combinations of meteorological and emission source operating conditions that may contribute to peak ground-level concentrations of SO\textsubscript{2}.

The meteorological data used in the analysis should generally be processed with the most recent version of AERMET. Estimated concentrations should include ambient background concentrations, should follow the form of the NAAQS, and should be calculated as described in section 2.6.1.2 of the August 23, 2010 clarification memo on “Applicability of appendix W Modeling Guidance for the 1-hr SO\textsubscript{2} National Ambient Air Quality Standard” (U.S. EPA, 2010a).

IV. Review of Attainment Plan Requirements

A. Emissions Inventory

The emissions inventory and source emission rate data for an area serve as the foundation for air quality modeling and other analyses that enable states to:

1. Estimate the degree to which different sources within a nonattainment area contribute to violations within the affected area; and
2. Assess the expected improvement in air quality within the nonattainment area due to the adoption and implementation of control measures. As noted above, the State must develop and submit to EPA a comprehensive, accurate and current inventory of actual emissions from all sources of SO\textsubscript{2} emissions in each nonattainment area, as well as any sources located outside the nonattainment area which may affect attainment in the area. See CAA section 172(c)(3).

The primary SO\textsubscript{2}-emitting point source located within the Sullivan County Area is Eastman, which produces organic acids, aldehydes, esters, polymers, cellulose esters, specialty plastics, and acetate fibers. The facility also produces process steam and electricity for most of the operations, including hazardous waste combustion, and wastewater treatment. Eastman consists of three main SO\textsubscript{2} emitting sources comprised of three powerhouses that include a total of 14 boilers and several smaller emitters:

- Powerhouse B–83 consists of Boilers 18–24, denoted B–18—B–24, which fire coal to provide steam for facility operations. Each of the seven emissions units has the following capacities: Boilers B–18—B–20 are rated at 246 million British thermal units per hour (MMBtu/hr); Boilers B–21—B–22 have a rated capacity of 249 MMBtu/hr; and Boilers B–23—B–24 have a rated capacity of 501 MMBtu/hr. All seven B–83 boilers have existing limits on SO\textsubscript{2} emissions of 2.4 lbs/MMBtu based on a 1-hour averaging period. Actual emissions from B–83 were 5,686 tons per year (tpy) in 2011.
- Powerhouse B–253 consists of units B–25—B–29 which fire coal to provide steam for facility operations. Each emissions unit, B–25—B–29 has a rated capacity of 655 MMBtu/hr and an existing limit on SO\textsubscript{2} emissions of 2.4 lbs/MMBtu based on a 24-hour averaging period. The B–253 powerhouse is currently undergoing a multi-year project to convert the power generation from the coal-fired boilers to natural gas-fired boilers to comply with regional haze best available retrofit technology (BART). See section IV.B.4.i for additional BART discussion. The result will be that the emissions units B–25—B–29 will fire only natural gas as repowered units start up and for all units no later than the attainment date for the 1-hour SO\textsubscript{2} NAAQS, October 4, 2018.\footnote{As mentioned elsewhere in this proposed action, four boilers have converted to exclusive use of natural gas for fuel combustion already. These repowered units have different heat capacities, and the fuel content is such that the actual emissions of SO\textsubscript{2} will always be much less than the formerly permitted rate.} Actual emissions from B–253 were 14,897 tpy in 2011.
- Powerhouse B–325 consists of Boilers B–30 and B–31, which fire coal to provide stationary operations. Boiler B–30 has a rated capacity of 780 MMBtu/hr and an existing emission limit on SO\textsubscript{2} emissions of 317 lbs/hr based on a 30-day averaging period, equivalent to 0.406 lbs/MMBtu. Boiler B–31 is rated at 880 MMBtu/hr and has an existing limit on SO\textsubscript{2} emissions of 293 lbs/hr based on a 30-day averaging period, equivalent to 0.333 lbs/MMBtu. Actual emissions from B–325 were 1,276 tpy in 2011.
- The B–248 unit consists of three hazardous waste combustors, one liquid chemical waste incinerator and two rotary kilns that can burn solid or liquid chemical waste, B–248–2, Vent A, and B–248–1, Vents D and E, respectively. According to the attainment SIP submitted by TDEC in May 2017, each of these units is subject to an existing limit on SO\textsubscript{2} emissions for an exhaust concentration of 1.000 parts per million by volume SO\textsubscript{2}, equivalent to 1,109 tpy for B–248–2, Vent A, and 1,552 tpy each for B–248–1, Vents D and E. Actual emissions from B–248 were 7.3 tpy in 2011. On February 1, 2018, TDEC issued a revised title V permit (568496) that included additional SO\textsubscript{2} limits of 20 tpy for Vent A and 40 tpy for Vents D and E, combined.
- Eastman has 31 other smaller emission units that provide various services to other parts of the facility, and these units account for 194.56 tpy of the allowable emissions across the facility. Actual emissions from the remaining units were 40.9 tpy in 2011. For more information on these miscellaneous units, see the May 12, 2017, submittal.

The emissions at Eastman were recorded either by using data collected from CEMS or by material balances based on feed rates and other parameters and are quality-assured by TDEC.\footnote{As detailed in Section IV. of this proposed action, CEMS will be installed for Powerhouse B–83. Therefore, all subsequent emissions inventories and all compliance assessments will be based on CEMS measurements.}

The next largest SO\textsubscript{2} source within the nonattainment area is the EnviraGlass, LLC glass manufacturing facility (EnviraGlass). SO\textsubscript{2} emissions from EnviraGlass were 49.3 tons in 2011, as determined from material balances. The EnviraGlass Kingsport facility consists of one main SO\textsubscript{2} emitter. The glass melting furnace #1 (GMF–1) fires natural gas and No. 2 fuel oil. The allowable permit limit for EnviraGlass of 39.6 lb/hr was included in the attainment modeling.

The next largest SO\textsubscript{2} source in Sullivan County is located just outside the Sullivan County Area boundary: Domtar Paper Company, LLC, Kingsport Paper Mill (Domtar). Domtar produces pulp and paper and is permitted to burn hog fuel, dry wood residue, engineered fuel, wastewater treatment plant sludge, fuel oil, and natural gas. SO\textsubscript{2} emissions from this facility were 70.8 tons in 2011, as determined from material balances.
The permitted allowable SO₂ emissions limit for the main SO₂ emissions unit at Domtar, the HFB1–1 biomass boiler, was included in the attainment modeling (264 lb/hr = 33.26 g/s). TDEC determined that the other SO₂ emissions units at Domtar did not need to be explicitly modeled because of their smaller emissions levels. Therefore, these sources were accounted for using the background concentration discussed in section IV.B.5 of this notice.

TDEC utilized EPA’s 2011 National Emissions Inventory (NEI), Version 2 as the starting point for compiling point source emissions for the base year emissions inventory. The hazardous waste incinerators at Eastman in B–248 were erroneously reported as 20 tpy each for B–248–1 and B–248–2. TDEC corrected this information from the 2011 NEI with information submitted by Eastman. EnviraGlass, formerly Heritage Glass, did not report emissions for the 2011 NEI, so TDEC used semiannual compliance reports pursuant to the title V operating permit for the facility to determine emissions. TDEC also used the 2011 NEI, Version 2 to obtain estimates of the area and nonroad sources. For onroad mobile source emissions, TDEC utilized EPA’s Motor Vehicle Emissions Simulator (MOVES2014). A more detailed discussion of the emissions inventory development for the Sullivan County Area can be found in Tennessee’s May 12, 2017, submittal.

Table 1 below shows the level of emissions, expressed in tpy, in the Sullivan County Area for the 2011 base year by emissions source category. The point source category includes all sources within the nonattainment area.

### Table 1—2011 Base Year Emissions Inventory for the Sullivan County Area

<table>
<thead>
<tr>
<th>Year</th>
<th>Point</th>
<th>Onroad</th>
<th>Nonroad</th>
<th>Area</th>
<th>Total</th>
</tr>
</thead>
<tbody>
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<td>2011</td>
<td>21,956.5</td>
<td>1.62</td>
<td>0.16</td>
<td>10.6</td>
<td>21,968.88</td>
</tr>
</tbody>
</table>

Domtar is not included in the base year inventory for the Sullivan County Area because it is outside of the boundary of the nonattainment area. However, TDEC evaluated 2011 emissions from this facility to evaluate its impact on the area. Domtar’s emissions were reported for the 2011 NEI, but TDEC determined that emissions from HFB1–1, the biomass boiler, were initially reported in error as 2.06 tons. Actual emissions were determined from fuel usage data supplied by Domtar, leading to 44.1 tpy SO₂ emitted in 2011 from HFB1–1 and total facility-wide emissions of 70.8 tpy. EPA has evaluated Tennessee’s 2011 base year emissions inventory for the Sullivan County Area and has made the preliminary determination that this inventory was developed consistent with EPA’s guidance. Therefore, pursuant to section 172(c)(3), EPA is proposing to approve Tennessee’s 2011 base year emissions inventory for the Sullivan County Area.

The attainment demonstration also provides for a projected attainment year inventory that includes estimated emissions for all emission sources of SO₂ which are determined to impact the nonattainment area for the year in which the area is expected to attain the standard. This inventory must address any future growth in the Area. Growth means any potential increases in emissions of the pollutant for which the Sullivan County Area is nonattainment (SO₂) due to the construction and operation of new major sources, major modifications to existing sources, or increased minor source activity. TDEC included a statement in its May 12, 2017 submittal declaring that the air agency assumes no growth of major sources in the Sullivan County Area, and that minor source growth should not significantly impact the Area. TDEC cites its “Growth Policy” found at Tennessee Air Pollution Control Regulations (TAPCR) 1200–03–09–0.015(5), which includes the nonattainment new source review (NNSR) program and the requirement for minor sources and minor modifications proposing to construct in a nonattainment area to apply BACT, approved into the SIP and last updated on July 30, 2012 (see 77 FR 44481). The NNSR program includes lowest achievable emissions rate, offsets, and public hearing requirements for major stationary sources and major modifications.

TDEC provided a future year projected emissions inventory for all known sources included in the 2011 base year inventory, discussed above, that were determined to impact the Sullivan County Area. The projected emissions are set to be accurate beyond October 1, 2018, when the control strategy for the attainment demonstration will be fully implemented. Therefore, as an annual future year inventory, the point source portion is accurate beyond October 1, 2018, and would represent an annual inventory for 2019 or beyond. The projected emissions in Table 2 are estimated actual emissions, representing a 67.6 percent reduction from the base year SO₂ emissions. The point source emissions were estimated by taking credit for the control strategy to repower the boilers at B–253 and assuming actual emissions at other Eastman units would remain the same as in 2011. Additionally, EnviraGlass has not operated in recent years, and TDEC includes a statement in its May 12, 2017 submittal that as of February 2017, the source had not resumed its operations. Therefore, EnviraGlass emissions were projected as zero tpy. If this source began operation again, actual emissions would be much less than those from Eastman (~50 tpy), and would be reported in future inventories.

Per EPA’s April 2014 SO₂ guidance, the existing allowable emissions limits and the new 30-day, combined emission limit (see section IV.B.4) that TDEC is requesting EPA approve into the SIP, were modeled to show attainment. These projected actual emissions included in the future year inventory are less than the allowable emission limits, and therefore offer a greater level of certainty that the NAAQS will be protected under all operating scenarios. Emissions estimates for onroad sources were re-estimated with MOVES2014. The nonroad emissions were projected using national growth factors, and area source emissions were scaled based on emission factors developed using the Annual Energy Outlook 2014 for consumption and production forecasts. Both categories were then apportioned to the nonattainment area based on...
population in the nonattainment area relative to that of Sullivan County.\textsuperscript{7}

\textbf{TABLE 2—PROJECTED 2018 SO\textsubscript{2} EMISSIONS INVENTORY FOR THE SULLIVAN COUNTY AREA [tpy]}

<table>
<thead>
<tr>
<th>Year</th>
<th>Point</th>
<th>Onroad</th>
<th>Nonroad</th>
<th>Area</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>2011</td>
<td>21,956.5</td>
<td>1.62</td>
<td>0.16</td>
<td>10.6</td>
<td>21,968.88</td>
</tr>
<tr>
<td>2019</td>
<td>7,104.5</td>
<td>0.64</td>
<td>0.006</td>
<td>10.521</td>
<td>7,115.67</td>
</tr>
</tbody>
</table>

\textbf{B. Attainment Modeling Demonstration}

Eastman operates a large manufacturing facility in Kingsport that includes major SO\textsubscript{2} sources with the potential to emit greater than 100 tons per year (tpy) of SO\textsubscript{2}. The SO\textsubscript{2} emissions come from three main boiler groups B–83, B–253 and B–325. Powerhouse B–253 serves five boilers (Boilers 25–29), each with an individual stack, that provide steam and electricity to the facility. Powerhouse B–325 serves two coal-fired boilers that vent to a single stack (Boiler 30 and Boiler 31). Boiler 30 is equipped with a spray dryer absorber and electrostatic precipitator to control particulate matter and acid gases. Boiler 31 is equipped with a spray dryer absorber and fabric filter to control particulate matter and acid gases. Powerhouse B–83 serves seven boilers; five coal-fired boilers (Boilers 18–22) venting to a single stack, and two coal-fired boilers (Boilers 23 and 24) that also burn wastewater treatment sludge, venting to a single stack.

These boilers, along with three other backup natural gas-fired boilers with minimal SO\textsubscript{2} emissions (B–423), provide process steam and most of the electrical power needed to supply Eastman’s operations. The combination of boilers and boiler operating loads at any given time depends on manufacturing demands along with availability of boilers, as each boiler has annual scheduled shutdowns. The following discussion evaluates various features of the modeling that Tennessee used in its attainment demonstration.

1. Model Selection

Tennessee’s attainment demonstration used AERMOD, the preferred model for this application, and the associated processor modeling programs. The State used the 16216v version of AERMOD with regulatory default options and urban dispersion coefficients.\textsuperscript{8} Receptor elevations and hill heights required by AERMOD were determined using the AERMAP terrain preprocessor version 11103. The meteorological data was processed using AERMET version 16216 with the regulatory adjusted U* option. The surface characteristics around the meteorological surface station were determined using AERSURFACE version 13016 and building downwash was assessed with the BPIP processor (version 04274). EPA proposes to find these model selections appropriate for the attainment demonstration.

2. Meteorological Data

The Sullivan County nonattainment area is in a wide valley surrounded by complex terrain ridges. Eastman evaluated available surface meteorological data in the area and determined that none of nearby National Weather Surface (NWS) stations in area were representative of the site-specific winds that occur in the nonattainment area valley. Therefore, Eastman installed and operated a site-specific 100-meter meteorological data tower and Doppler SODAR system to collect profiles of meteorological data (wind speed, wind direction, temperature). One year of site-specific data was collected from April 1, 2012 through March 31, 2013.\textsuperscript{9} EPA has reviewed the site-specific meteorological data and has preliminarily determined that the data meets the quality assurance criteria and the 1-year of data is appropriate for the modeling analysis. Site-specific turbulence parameters (sigma-theta and sigma-w) were also collected. However, as recommended in the December 2016 final revisions to the EPA’s Guideline on Air Quality Models, contained in 40 CFR part 51, appendix W, since Eastman chose to use the adjusted U* (surface friction velocity) regulatory option in AERMET, the site-specific turbulence parameters were not used. The data from the 100-meter tower and Doppler SODAR were merged with concurrent additional NWS surface data parameters needed by AERMOD (e.g., cloud cover data) from the Tri-City Regional Airport National Weather Station (13877) and upper air data from Nashville, TN (13897).

The surface roughness (\(z_0\)), albedo (\(r\)), and Bowen ratio (\(Bo\)) required surface parameters were determined for the area around the site-specific meteorological surface station using AERSURFACE version 13016. Eastman processed the meteorological data and surface parameters into AERMOD-ready files using AERMET version 16216 with the regulatory adjusted U* option. Complete details of the meteorological data collection and processing are available in sections 3.1–3.8 of Attachment G1, “NAAQS Attainment Demonstration Modeling Analysis,” in Tennessee’s final SIP submittal. EPA preliminarily finds that the meteorological data collection and processing is appropriate for the modeled attainment demonstration.

3. Emissions Data

The emission inputs to Tennessee’s attainment demonstration modeling reflect 1-hour emissions that correspond to allowable emissions from sulfur dioxide emission units at the Eastman facility and other nearby emissions sources located within and outside the effective population for the urban option to account for the large industrial heat release at the Eastman facility. The results of this analysis yield an effective population of 200,000, which is approximately four times the approximate 50,000 population of Kingsport, Tennessee. The complete details of Tennessee and Eastman’s analysis are discussed in Section 4.1 of Attachment G1, “NAAQS Attainment Demonstration Modeling Analysis,” in Tennessee’s final SIP submittal. EPA preliminarily agrees that urban dispersion coefficients with an effective population of 200,000 is appropriate for the modeling, and believes the procedures to estimate the effective population are appropriate.

\textsuperscript{7} For more information, see Attachments A–D of the May 12, 2017, submittal.

\textsuperscript{8} Tennessee and Eastman determined that urban dispersion coefficients are appropriate for the modeling analysis based upon an assessment of land use within a 3-kilometer radius of the Eastman boiler stacks using the Auer technique contained in Section 7.2.1.1.b of 40 CFR part 51, appendix W. The analysis resulted in 52.4 percent of the area being classified as urban land use categories, which is above the 50 percent criteria for using urban dispersion coefficients. Additionally, Tennessee and Eastman performed an analysis to estimate an effective population for the urban option to account for the large industrial heat release at the Eastman facility. The results of this analysis yield an effective population of 200,000, which is approximately four times the approximate 50,000 population of Kingsport, Tennessee. The complete details of Tennessee and Eastman’s analysis are discussed in Section 4.1 of Attachment G1, “NAAQS Attainment Demonstration Modeling Analysis,” in Tennessee’s final SIP submittal. EPA preliminarily agrees that urban dispersion coefficients with an effective population of 200,000 is appropriate for the modeling, and believes the procedures to estimate the effective population are appropriate.

\textsuperscript{9} Pursuant to Section 8.4.2.e of 40 CFR part 51, appendix W, if site-specific meteorology is used for the modeling analysis, at least 1-year of site-specific data should be collected. The data should meet the quality assurance criteria in EPA’s 2000 “Meteorological Monitoring Guidance for Regulatory Modeling Applications.” Publication No. EPA–454/R–99–005, Office of Air Quality Planning and Standards, Research Triangle Park, NC. (NTIS No. PB 2001–103606).
Sullivan County nonattainment area. Eastman’s modeled emissions sources include nine coal-fired boilers, five natural gas boilers that were converted from coal-fired to natural gas-fired units, and a tall-gas incineration unit. Although the limit on emissions from Eastman governs the 30-day average sum of emissions from all nine coal-fired boilers, Tennessee conducted modeling using a constant hourly rate (the 1,905 lb/hr 1-hour CEV), as recommended by EPA’s April 2014 SO\textsubscript{2} guidance. As discussed in more detail in section IV.B.6 below, Tennessee has conducted 34 modeling runs using a full range of emission distributions, to show that the limit ensures attainment, regardless of how emissions are distributed among the various boilers within this limit. In addition, Tennessee used the statistical procedures recommended in Appendix C of EPA’s guidance to establish an adjustment factor that it applied to determine the limit it would otherwise have set.

Two additional SO\textsubscript{2} emissions sources, EnviraGlass, located within the nonattainment area, and Domtar Paper, located just outside the nonattainment area, were also included in Tennessee’s attainment demonstration modeling, modeled at their hourly emission limits. Additional details regarding the emissions units are included in the Emissions Inventory, section IV.A., of this proposed rule and section 2 of Attachment G1, “NAAQS Attainment Demonstration Modeling Analysis,” in Tennessee’s final SIP submittal. EPA proposed the emissions sources included in the modeling are appropriate for the attainment demonstration. All other sources not explicitly included in the modeling were addressed using the background concentration discussed in section IV.B.5 of this notice.

4. Emission Limits

An important prerequisite for approval of an attainment plan is that the emission limits that provide for attainment be quantifiable, fully enforceable, replicable, and accountable. See General Preamble at 13567–68. Some of the limits that Tennessee’s plan relies on are expressed as 30-day average limits. Therefore, part of the review of Tennessee’s attainment plan must address the use of these limits, both with respect to the general suitability of using such limits for this purpose and with respect to whether the limits included in the plan have been suitably demonstrated to provide for attainment. The next subsection that follows addresses the enforceability of the limits in the plan, and the second subsection that follows addresses the combined, 30-day emission limit for Boilers 18–24, 30, and 31. Sections IV.B.6 and 7 discuss the modeling conducted to demonstrate that the limit of combined emissions of these boilers suitably provides for attainment.

i. Enforceability

Section 172(c)(6) provides that emission limits and other control measures in the attainment SIP shall be enforceable. Tennessee’s attainment SIP for the Sullivan County nonattainment area relies on control measures and enforceable emission limits for Powerhouses B–253, B–83 and B–325 (for more discussion on these boilers, please refer to section IV.A above). These emission reduction measures were accounted for in the attainment modeling for the Eastman facility which demonstrates attainment for the 2010 NAAQS.

Tennessee’s control strategy for B–253 relies on compliance with the State’s Regional Haze SIP to install BART for SO\textsubscript{2} and other pollutants that impair visibility at Class I areas. TDEC’s original April 4, 2008, regional haze SIP identified B–253 (Boilers 25–29) at Eastman Chemical as BART-eligible units. 10 Tennessee subsequently amended its regional haze SIP (May 14, 2012 and May 25, 2012) to establish BART requirements for Eastman including an alternative BART option to repower (convert coal-fired boilers to natural gas) Boilers 25–29 at B–253 by December 31, 2013. 11 The alternative BART measure became federally-enforceable through the issuance of BART permit 066116H on May 9, 2012, and an amendment on May 22, 2012, which changed the conversion completion date to align with the 1-hour SO\textsubscript{2} NAAQS compliance deadline of October 4, 2018 (Condition 4(f)). 12 Tennessee issued construction permit 966859F on June 15, 2013, authorizing construction of the B–253 boilers conversion to natural gas. Condition 6 of Permit 966859F establishes a natural gas fuel restriction after conversion is complete for each boiler.

In conjunction with the natural gas control strategy at B–253, Tennessee also established a 30-day combined SO\textsubscript{2} emission limit for nine coal-fired boilers at B–83 (seven boilers) and B–325 (two boilers) pursuant to EPA’s April 2014 SO\textsubscript{2} guidance on longer term average limits (see section IV.B.4.ii below). Tennessee established a single, combined 30-day rolling average of 1,753 lbs/hr SO\textsubscript{2} emission limit through Permit 070072F on May 10, 2017, for Boilers 18–24 at B–83 and Boilers 30–31 at B–325. Boilers 30 and 31 at B–325 also have existing individual SO\textsubscript{2} emission limits of 317 lbs/hr and 293 lbs/hr, respectively, based on a 30-calendar day rolling average. 13 Eastman must comply with the combined 30-day SO\textsubscript{2} emission limit for the 30-day period ending on October 31, 2018 14 and each 30-day period thereafter. Therefore, Eastman must begin to comply with the new limit no later than October 2, 2018. Compliance will be determined based on continuous emission monitoring system (CEMS) data for all nine boilers. EPA provides additional details, section IV.B.4.ii below, regarding how the combined 30-day SO\textsubscript{2} emission limit was derived. The enforceable emission limit and compliance parameter ensure control measures will achieve the necessary incremental SO\textsubscript{2} emissions reductions necessary to attain the NAAQS as expeditiously as practicable. Based on

10 A BART-eligible source is an emission source that has the potential to emit 250 tons or more of a visibility-impairing pollutant, was constructed after August 7, 1962, and whose operations fall within one or more of 26 listed source categories. The Clean Air Act requires BART for any BART-eligible source that a State determines “emits any air pollutant which may reasonably be anticipated to cause or contribute to any impairment of visibility in any such area.” EPA finalized a limited approval/limited disapproval of portions of Tennessee’s April 4, 2008, regional haze SIP on April 24, 2012 (77 FR 24392). The April 4, 2008, SIP established the State’s plan to comply with federal requirements to ensure natural visibility conditions at Class I areas by requiring affected sources to install BART for SO\textsubscript{2} and other visibility-impairing pollutants.

11 Tennessee’s initial Eastman BART determination required Eastman to reduce SO\textsubscript{2} emissions at Boilers 25–29 either by 92 percent or comply with a BART-eligible alternative established through the BART permit (066116H). EPA approved Eastman’s BART determination, the alternative BART option and permit 066116H on November 27, 2012 (77 FR 70689).

12 Condition 4(f) also prohibits operation of any B–253 boiler not converted after the October 2018 SO\textsubscript{2} NAAQS compliance date until repowered to natural gas.

13 Established in construction Permit 955272F, Boiler 30 has a 317 lbs/hr 30-day SO\textsubscript{2} limit and Boiler 31 has a 293 lbs/hr 30-day SO\textsubscript{2} limit, giving B–325 an allowable limit of 610 lbs/hr on a 30-day average.

14 EPA’s April 2014 SO\textsubscript{2} guidance recommends that attainment plans provide for compliance at least one calendar year prior to the attainment deadline, to facilitate collection of air quality monitoring data reflecting attainment plan implementation. This air quality data would indicate whether the attainment plan is in fact successfully providing for attainment. Nevertheless, the guidance also notes that EPA has the discretion to approve plans that are judged to provide for attainment by the statutory attainment deadline, even if the monitoring data collected prior to the attainment deadline are judged to indicate that the plan has not yielded timely attainment. EPA believes that Tennessee’s attainment plan provides for attainment, notwithstanding the possibility that subsequent review of available monitoring data may support a conclusion that the plan did not in fact provide for timely attainment.
the attainment modeling of B–253 repowering combined with the 30-day SO₂ emission limits for B–83 and B–325, the area is projected to begin showing attaining monitoring design values.

Tennessee’s May 11, 2017, attainment SIP requests EPA approve into the SIP the authorization for alternative BART repowering of Boilers 25–29 at B–253 at Condition 4(f) of Regional Haze permit 066161H15 approved into Tennessee’s regional haze SIP on November 12, 2012, natural gas fuel restriction for Boilers 25–29 (after each natural gas conversion) at Condition 6 of PSD construction permit 0066859F, and the 30-day rolling single, combined SO₂ emission limit of 1,753 lbs/hr for boilers at B–83 and B–325 at Conditions 1 through 4 of permit 070072F, which also include compliance parameters (monitoring, recordkeeping and reporting). The accountability of the SO₂ conditions were included in the final issued permit.

Tennessee requested EPA approve Conditions 1–5 from the State’s Regional Haze SIP. See 77 FR 70689. The accountability of the SO₂ conditions were included in the final issued permit.

EPA’s April 2014 SO₂ guidance to determine an adjustment factor with which to establish a single, combined emission limit with a longer term averaging time (30-day). Tennessee analyzed three years of historical hourly emissions data (2013–2015) from the nine boilers in question. Tennessee used the sum of emissions from the nine boilers in this analysis, determining a 99th percentile of the 1-hour total emissions values and a 99th percentile of the 30-day total emission limits. The ratio of these 99th percentile values yielded an adjustment factor of 0.92. Multiplication of this adjustment factor times the collective CEV yielded a 30-day average limit of 1,753 lbs/hr. EPA believes that Tennessee, by following the approach recommended in Appendix C of the April 2014 SO₂ guidance, has justified a conclusion that this 1,753 lbs/hour limit (governing the sum of emissions from the nine boilers) may be considered comparable stringent to a 1-hour limit of 1,905 lbs/hr (again governing the sum of emissions from the nine boilers). Since the emission limit being established for these nine boilers is a single, combined limit, EPA believes it is appropriate for the adjustment factor also to be computed based on the total combined emissions from the nine boilers. Therefore, EPA proposes to agree that the adjustment factor of 0.92 is appropriate in this case.

EPA’s April 2014 SO₂ guidance further states, “The second important factor in assessing whether a longer term average limit provides appropriate protection against NAAQS violations is whether the source can be expected to comply with a longer term average limit in a manner that minimizes the frequency of occasions with elevated emissions and magnitude of emissions on those occasions.” The guidance advises that the establishment of supplemental limits to provide direct constraints on the frequency and/or magnitude of emissions exceeding the CEV can be valuable, but the guidance also acknowledges the possibility that occasions of emissions exceeding the CEV may be rare and modest in magnitude even without supplemental enforceable limitations. Tennessee concluded that occasions of emissions exceeding the critical emissions would be infrequent and modest in magnitude even without adoption of supplemental limits. EPA conducted its own evaluation of whether this element of the guidance is satisfied, such that compliance with Tennessee’s 30-day average emission limit would provide adequate confidence that the area will attain the standard.

The historical emissions data do not provide a direct measure of the frequency and magnitude of elevated emissions to expect once Eastman complies with the 30-day limit. The historical Eastman emissions data that Tennessee used is from a period in which emissions frequently were higher than the new limit. During the 2013 to 2015 period, Eastman’s total emissions exceeded the subsequently adopted limit (1,753 lbs/hr) in approximately 32.4 percent of 30-day averages, and exceeded the 1-hour CEV (1,905 lbs/hr) in approximately 21.5 percent of hours. Thus, Eastman will be required to make emission reductions sufficient to comply with the new 30-day limit (1,753 lb/hr), which would both eliminate the occasions of 30-day average emissions above 1,753 lbs/hr and reduce the number and possibly eliminate the occasions when 1-hour emission levels exceed 1,905 lbs/hr. The question then is how frequently and with what associated emission levels can 1-hour emissions levels be expected to exceed the CEV once Eastman complies with the 30-day average limit.

Since Tennessee has permitted a combined, multi-stack emission limit (1,753 lb/hr) for the nine coal-fired boilers, there are multiple compliance scenarios possible. Consequently, there is also a range of frequencies that the hourly emissions can exceed the CEV while still meeting the 30-day permit limit. To forecast the frequency and magnitude of emissions of occasions that exceed the CEV, EPA asked Tennessee for information regarding how Eastman expects to comply with the new limit. Tennessee responded that Eastman’s compliance strategy will likely be to modify the order of dispatch of the nine boilers in question, dispatching Boilers 18 through 22 from Powerhouse B–83 less often in the future, in particular by reducing the dispatching of the smaller coal-fired boilers (Boilers 18, 19, and 20) in favor of
of greater operation of the larger boilers that are being converted to burn natural gas.\footnote{ Tennessee’s analysis in the February 8 email confirmed that, under the new combined limit, there should be enough capacity available at natural gas boilers at B–253 and B–423, without the need to revise existing permit limits for these individual units.} These smaller boilers are the oldest and least efficient boilers of the nine and provide only low pressure steam to the facility. EPA used this information provided by Tennessee and the less efficient nature of these boilers and further analyzed the historical (2013 to 2015) emissions. Given the order of preference in boiler dispatch provided by Tennessee and efficiency considerations, EPA expects that three boilers (B–18 to B–20) may be operated at approximately 20 percent of their historical rates. This level of operation for these boilers would yield compliance with the new limit and allow Eastman to meet its steam generation needs. With that level of operation of those boilers, the number of occasions of total plant emissions exceeding the CEV was found to be 1.1 occasions of total plant emissions for these boilers would yield an appropriate alternative to establishing a 1-hour average emission limit for each unit or for the collected units at this source. Further discussion of Tennessee’s modeling analysis of its set of limits, along with discussion of pertinent considerations in applying the procedures of Appendix C of EPA’s guidance in determining appropriate longer term limits, is provided in section IV.B.6 below. In summary, EPA believes that the State has used a suitable data base in an appropriate manner and has thereby applied an appropriate adjustment, yielding an emission limit that has comparable stringency to the 1-hour average limit that the State determined would otherwise have been necessary to provide for attainment. While the 30-day average limit allows for occasions in which emissions may be higher than the level that would be allowed with the combined-unit 1-hour limit, the State’s limit compensates by requiring average emissions to be lower than the level that would otherwise have been required by a 1-hour average limit. As described above in this section, in section III and explained in more detail in EPA’s April 2014 SO\textsubscript{2} guidance for nonattainment plans, EPA believes that appropriately set longer term average limits provide a reasonable basis by which nonattainment plans may provide for attainment. Based on the general information provided in this guidance document as well as the information in Tennessee’s attainment SIP, EPA proposes to find that the 30-day average limit for Eastman’s nine boilers in combination with emissions limitations in the State’s plan will provide for attainment of the NAAQS.

5. Background Concentration

In accordance with section 8.3 of 40 CFR part 51, appendix W, Tennessee’s attainment demonstration addresses the impacts from all SO\textsubscript{2} emissions sources not explicitly included in the AERMOD modeling analysis by adding representative background concentrations to the impacts from the modeled sources. The State and Eastman chose to use 2013–2015 ambient monitoring data from a sulfur dioxide monitor located at Mammoth Cave National Park in Kentucky (AQS ID 21–061–0501) to develop “seasonal by hour of the day” background concentrations. The hourly concentrations range from 2.79 to 18.51 micrograms per cubic meter (µg/m\textsuperscript{3}). The complete details of the background concentrations are described in section 3.9 of Attachment D, Tennessee’s Attainment Demonstration submittal. EPA preliminarily finds use of the Mammoth Cave background data is appropriate for the attainment modeling analysis.

6. Analysis of Multi-Stack Limit

The use of a limit governing the sum of emissions from multiple stacks, in lieu of individual limits for each stack, calls for a demonstration that the worst-case distribution of these emissions provides for attainment. To provide this demonstration, Tennessee conducted thirty-four (34) AERMOD modeling runs using varying combinations of boiler load and emissions scenarios for the nine coal-fired boilers to verify that the modeling includes the worst-case operational scenarios allowed under the single, thirty-day rolling average, emissions limit of 1,753 lbs/hr for the nine coal-fired boilers. The 34 modeling scenarios were performed to derive the single, combined 1,905 lbs/hr CEV for the nine coal-fired boilers (two stacks at the B–83 Powerhouse and one stack at the B–325 Powerhouse) that result in modeled attainment of the NAAQS. As defined in EPA’s April 2014 SO\textsubscript{2} guidance, the CEV is the level of emissions that results in modeled concentrations that are just below the level of the NAAQS; as noted above, this term is being applied to the combination of emissions from the nine coal-fired boilers referenced earlier in the notice. With these 34 AERMOD modeling runs, Tennessee and Eastman evaluated a wide range of future potential operational scenarios, considering boiler steam load demands for Eastman’s production processes and boiler load-shifting that is projected to occur once the conversion of the five coal-fired boilers at B–253 (Boilers 25–29) from burning coal to natural gas is completed by October 2018. Based upon this evaluation, 34 operational scenarios were selected by Tennessee and Eastman for the CEV modeling analysis. Four of these 34 operation scenarios reflected all of the SO\textsubscript{2} being emitted from a single stack, including two scenarios where all of the 1,905 lbs/hr is released from one or the other of the two B–83 stacks individually, one scenario where the B–325 stack emitted 726 lbs/hr\footnote{Established in PSD Permit 955272F, Boiler 30 has a 137 lbs/hr 30-day SO\textsubscript{2} limit and Boiler 31 has a 293 lbs/hr 30-day SO\textsubscript{2} limit, giving B–325 an allowable limit of 610 lbs/hr on a 30-day average. For the purposes of modeling, Eastman calculated an adjustment factor specific to the B–325 stack in accordance with the methods of Appendix C of EPA’s guidance. Eastman calculated an adjustment factor of 0.84, which yielded a corresponding one-hour emission rate of 726 lbs/hr.} (which is the hour equivalent to the current permitted, federally enforceable allowable...
emissions limit for B–325), and one scenario where the B–325 stack emitted 1,800 lbs/hr to simulate a B–325 worst-case emissions scenario. The modeled predicted concentrations from the three single-stack scenarios with permissible emission levels ranged from 89.08 μg/m³ to 182.7 μg/m³; the scenario with B–325 emitting 1,800 lbs/hr, well above its permissible level, yielded an estimated highest concentration of 190.8 μg/m³. Nine modeling scenarios were performed to evaluate emissions from various combinations when two of the three stacks are in operation. For these scenarios, the 1,905 lbs/hr CEV rate was divided between the two stacks in multiple combinations to represent reasonable potential worst-case future operations. The modeled predicted concentrations from the nine two-stack scenarios range from 171.6 μg/m³ to 190.5 μg/m³, with the highest value of 190.5 μg/m³ resulting from a scenario when the Boilers 18–22 B–83 stack was emitting at the highest level near its maximum capacity (1,039 lbs/hr), the Boilers 23–24 B–83 stack was emitting near its average rate (866 lbs/hr), and Boilers 30–31 were not operating (0 lb/hr). Twenty-one modeling scenarios were performed to evaluate simultaneous operation of all three stacks. As with the two-stack scenarios, the 1,905 lbs/hr critical value emissions rate was divided among the three stacks in multiple combinations to represent reasonable potential worst-case future operations. The modeled predicted concentrations from the twenty-one three-stack scenarios range from 186.0 μg/m³ to 195.37 μg/m³. The maximum model predicted concentration from the three-stack scenarios, which is also the maximum for all scenarios, is 195.37 μg/m³, occurred in the three-stack operational scenario that assumes the majority of the emissions came from the Boilers 18–22 B–83 stack emitting near its maximum capacity (1,133 lbs/hr), emissions were slightly below normal from the Boilers 23–24 B–83 stack (719 lbs/hr), and emissions were low from the B–325 stack (53 lbs/hr, as Boiler 30 was assumed to not be operating and Boiler 31 operating under minimal load). Tables which summarize the emissions and modeling input parameters for each of the 34 scenarios and additional details about the full range of scenarios are contained in the State’s modeling analysis in sections 7.11 and 7.12 of the State’s Attainment Demonstration Submittal and section 5 of Attachment G1, “NAAQS Attainment Demonstration Modeling Analysis,” in Tennessee’s final SIP submittal.

As noted earlier, in calculating the adjustment factor to multiply times the collective CEV (the 1-hour sum of emissions providing for attainment in the full range of distribution of the emissions) to determine a comparably stringent collective 30-day emission limit, Tennessee used statistics for the sum of emissions from all the stacks governed by this limit. EPA’s guidance does not expressly recommend how to address comparable stringency for limits that address the sum of emissions across multiple stacks. However, EPA’s guidance at page 32 states:

The selection of data handling procedures influences the longer term averages that are computed and thus influences the relationship between a 1-hour limit and a comparably stringent longer term average limit. Therefore, . . . all analyses for determining comparably stringent longer term average limits should then apply those data handling procedures.

This suggests that the computation of adjustment factors for a limit governing the sum of emissions from multiple stacks should be based on statistical analysis of the variability of the sum of emissions from the multiple stacks, irrespective of the variability of emissions from the individual stacks. In the case of Eastman, while the facility shifts load among its various boilers, resulting in relatively variable emissions at any boiler, the total load is relatively steady, resulting in only modest variability of total emissions. As a result, use of a 30-day limit makes less difference in the control measure needed to meet the limit, and so less adjustment is needed to establish a 30-day limit that is comparably stringent to the corresponding 1-hour limit. Given the demonstration that the full range of potential distributions of 1,905 lb/hr provides for attainment, EPA also believes that a 30-day average limit of 1,753 lb/hr provides suitable assurance that attainment would result under the full range of distribution of these allowable emissions.

7. Summary of Modeling Results

The AERMOD modeling analysis contained in Tennessee’s Attainment Demonstration submittal resulted in a maximum modeled design value of 195.37 μg/m³, including the background concentration, which is less than the 196.4 μg/m³ (75 ppb) 1-hour sulfur dioxide NAAQS.

EPA has evaluated the modeling procedures, inputs and results and proposes that the results of the State’s modeling analysis demonstrate that there were no violations of the NAAQS within the nonattainment area when the combined emissions from the nine coal-fired boilers are no greater that the 1,905 lbs/hr CEV. Additionally, EPA proposes to find that the 34 modeling scenarios are adequate to address the range of possible future operating scenarios of the boilers at the Eastman facility and, therefore, support that the 1,905 lbs/hr combined CEV is appropriate. Section IV.B.4.i. of this notice explains how Tennessee and Eastman developed the 1,753 lbs/hr 30-day rolling average permit limit following the procedures in EPA’s April 2014 SO₂ guidance.

C. RACM/RACT

CAA section 172(c)(1) requires that each attainment plan provide for the implementation of all RACM as expeditiously as practicable (including such reductions in emissions from existing sources in the area as may be obtained through the adoption, at a minimum, of RACT) and shall provide for attainment of the NAAQS. EPA interprets RACM, including RACT, under section 172, as measures that a state determines to be reasonably available and which contribute to attainment as expeditiously as practicable for existing sources in the area.

Tennessee’s plan for attaining the 1-hour SO₂ NAAQS in the Sullivan County SO₂ nonattainment area is based on several measures, including repowering the B–253 boilers from coal to natural gas operation. Tennessee’s plan requires compliance with these measures by October 1, 2018. This date is consistent with Tennessee’s Regional Haze SIP, which was amended on May 9, 2012. The amended SIP allowed Eastman to implement BART no later than April 30, 2017, or an alternative BART option (repowering of the boilers from coal to natural gas) by December 31, 2018. The alternative BART option became federally enforceable with the issuance of BART permit 066116H on May 9, 2012. A prevention of significant deterioration (PSD) construction permit (066059F), which authorizes construction for the boiler repowering, was issued June 5, 2013. Condition 4(f) of permit 066116H requires the repowering of B–253 to be completed no later than the compliance deadline for the one-hour SO₂ NAAQS. Also, Tennessee evaluated B–325 Boiler 31, and determined that the spray dryer absorber/fabric filter baghouse combination already in place constitutes RACT, and that therefore no further analysis is required.

Tennessee considered various other measures for the remaining B–83 and B–325 boilers. The State evaluated a range of measures to reduce SO₂ emissions,
including switching to low-sulfur coal, upgraded or additional control equipment, conversion of existing coal-fired boilers to natural gas, and replacing existing coal-fired boilers with natural gas boilers. Tennessee determined that these other measures are not reasonable for a variety reasons, including infeasibility and cost, and that they were not needed to attain the NAAQS and would not advance the attainment date. See Table 5–2 in the submittl for additional details on the measures analyzed. In addition, Tennessee evaluated other operations at Eastman as well as additional sources within and adjacent to the nonattainment area and determined that no additional controls were required as RACT.

Tennessee has determined that repowering B–253 to natural gas constitutes RACT and EPA proposes to concur with the state’s RACT analysis. Based on the attainment modeling, described herein, for the B–253 control measures combined with the 30-day SO\textsubscript{2} emission limit for B–83 and B–325, the area is projected to show attainment of the 1-hour SO\textsubscript{2} standard. EPA believes the attainment plan provides for attainment through the adoption and implementation of Tennessee’s RACT/ RACM emission control strategy. Therefore, EPA proposes to conclude that the state has satisfied the requirement in section 172(c)(1) to adopt and submit all RACM as needed to attain the standards as expeditiously as practicable.


d New Source Review (NSR)

Tennessee’s SIP-approved NSR rules for nonattainment areas (NNSR) are at TAPCR 1200–03–09–01(S), last approved by EPA on July 30, 2012. See 77 FR 44481. These rules provide for appropriate NSR for SO\textsubscript{2} sources undergoing construction or major modification in the Sullivan County Area without need for modification of the approved rules. Therefore, EPA proposes to conclude that this requirement is met for this Area through Tennessee’s existing NSR rules.

E. Reasonable Further Progress (RFP)

The CAA section 172(c)(2) requires the SIP provide reasonable further progress towards attainment of the applicable NAAQS. Regarding part D nonattainment plans, section 171(1) of the CAA defines RFP as the annual incremental reduction in emissions of the relevant pollutant as are required for the purpose of ensuring attainment of the applicable NAAQS by the applicable date. As discussed above, Tennessee’s 2008 regional haze SIP required Eastman implement BART at B–253 (Boilers 25–29). The State revised its SIP to establish an alternative BART option to repower/convert all five coal-fired boilers at B–253 to natural gas units and changed the compliance deadline to the 1-hour SO\textsubscript{2} NAAQS attainment date or October 4, 2018.\textsuperscript{21} TDEC and Eastman indicated that the size and complexity of the repowering required additional time to ensure the conversion was technically feasible. Tennessee’s control strategy to reduce SO\textsubscript{2} emission and attain the 2010 standard as expeditiously as practicable include the repowering of the five coal-fired boilers at B–253 and imposing an SO\textsubscript{2} emission limit for the nine coal-fired boilers for B–83 and B–325. Eastman established a repowering timeline for B–253 listed in Table 3 below and in Tennessee’s SO\textsubscript{2} attainment SIP.

\begin{table}[h]
\begin{tabular}{|c|c|c|}
\hline
Boiler & Date\textsuperscript{22} & Activity \\
\hline
25 & 1st Quarter(Q1), 2014 & Equipment mobilization, six-week conversion and demobilization; pre-outage construction conducted 4th quarter of 2017 thru the 1st quarter in 2018. \\
27 & 1st and 2nd Quarter in 2016 & Conversion Complete—start-up date was February 23, 2014. \\
28 & 2nd and 3rd Quarter in 2016 & Equipment mobilization, six-week conversion and demobilization; pre-outage construction conducted 4th quarter of 2017 thru the 1st quarter in 2018. \\
29 & 1st and 2nd Quarter in 2018 & Equipment mobilization, six-week conversion and demobilization; pre-outage construction conducted 4th quarter of 2017 thru the 1st quarter in 2018. \\
26 & 3rd Quarter in 2018 & Equipment mobilization, six-week conversion and demobilization; pre-outage construction conducted 4th quarter of 2017 thru the 1st quarter in 2018. \\
\hline
\end{tabular}
\caption{Estimated Compliance Schedule for B–253 Repowering}
\end{table}

Based on this projected timeline, Eastman intends to complete conversion of B–253 by the 3rd quarter of 2018 just before the October 4, 2018 attainment date. At the time of this proposed rulemaking, four of the five coal-fired boilers at B–253 (B–25, 27, 28, and 29) have been converted, are fully operational and currently subject to the natural gas fuel restriction established in Permit 966859F. According to Eastman, this compliance schedule was the most practicable to meet the BART requirements and attain the SO\textsubscript{2} NAAQS to maintain the necessary steam and electricity for manufacturing operations. This is also due, in part, to the state required (Tennessee Code Section 68–122–110) annual boiler safety inspection and maintenance of all 17 boilers at Eastman (including B–253) while ensuring necessary boiler capacity to sustain facility operations.\textsuperscript{23}

\textsuperscript{21}Tennessee’s attainment SIP mistakenly states that the 1-hour SO\textsubscript{2} attainment date is October 3, 2018 instead of October 4, 2018.

\textsuperscript{22}According to TDEC, Eastman did not schedule the conversion of any boilers in 2015 or 2017 due to legally required annual boiler safety inspections and maintenance to ensure facility steam and electricity reliability. The necessary engineering work for the conversion of Boilers 27 and 28 in 2016 was performed in 2015 and 2017 for Boilers 26 and 29. For additional information, please refer to Tennessee’s Attainment SIP Narrative located in the docket (ID: EPA–R04–OAR–2017–0626).

\textsuperscript{23}The Tennessee Boiler and Unfired Pressure Vessel inspection law (Tennessee Code Section 68–122–110) requires annual inspection and maintenance of Eastman’s 17 power boilers. According to Eastman, only one boiler at a time is taken off-line to ensure the necessary steam and electricity reliability for manufacturing operations.

The duration of each inspection depends on the size and maintenance cycle of the boiler components. Eastman has stated it takes 46–48 of the 52 weeks to complete the scheduled inspections and boiler maintenance. Eastman also indicated that it is not practicable for the facility to schedule more than two extended inspections per calendar year without potential risk meeting production demands.

\textsuperscript{21}TDEC and Eastman indicated that the size and complexity of the repowering required additional time to ensure the conversion was technically feasible. Tennessee’s control strategy to reduce SO\textsubscript{2} emission and attain the 2010 standard as expeditiously as practicable include the repowering of the five coal-fired boilers at B–253 and imposing an SO\textsubscript{2} emission limit for the nine coal-fired boilers for B–83 and B–325. Eastman established a repowering timeline for B–253 listed in Table 3 below and in Tennessee’s SO\textsubscript{2} attainment SIP.
Tennessee’s May 2017 attainment SIP also provides estimated incremental emission reductions during the conversion of all five boilers at B–253. Table 6–2 in TDEC’s submittal provides for projected change in actual emissions at Eastman over the duration of the repowering at B–253 and post-control after the attainment date. TDEC compared the pre-control emission rates for all boilers at B–83, B–325 and B–253 for the period of April 1, 2012 through March 31, 2013 over the course of the conversion (interim years 2015 and 2017) to post-control emissions (after October 4, 2018). Projected emission reductions after the completion of B–253 conversion and compliance with the SO₂ emission limit for B–83 and B–325, are expected to be 66 percent compared to pre-control levels (with estimated incremental emission reductions of 11 percent and 39 percent in 2015 and 2017 respectively (after complete conversion of B–25 in 2014 and B–27 and 28 in 2016). The average pre-control emissions from each B–253 boiler was 677 pounds per hour (or 2,965 tpy). TDEC estimates that each boiler conversion will reduce emissions by 2,960 tpy.

The control measures for attainment of the 2010 SO₂ NAAQS included in the State’s submittal have been modeled to achieve attainment of the 1-hour SO₂ NAAQS. The adoption of new emissions limits, and compliance parameters and a natural gas restriction (for repowered B–253 boilers) require these control measures to achieve emissions reductions. Tennessee finds that the attainment plan requires the affected sources to implement control measures as expeditiously as practicable to ensure attainment of the 1-hour standard and therefore concludes that the attainment plan provides for RFP in accordance with the approach to RFP described in EPA’s guidance. EPA believes Tennessee’s SIP provides for incremental reduction in emissions to ensure reasonable further progress towards attainment of the standard and therefore concurs and proposes to preliminary conclude that the plan provides for RFP and therefore satisfies the requirements of CAA section 172(c)(2).

F. Contingency Measures

As noted above, EPA guidance describes special features of SO₂ planning that influence the suitability of alternative means of addressing the requirement in section 172(c)(9) for contingency measures for SO₂, such that in particular an appropriate means of satisfying this requirement is for the state to have a comprehensive enforcement program that identifies sources of violations of the SO₂ NAAQS and to undertake an aggressive follow-up for compliance and enforcement. Tennessee’s plan provides for satisfying the contingency measure requirement in this manner.

Specifically, upon notification by Tennessee that a reference monitor for the Area has registered four validated ambient SO₂ concentrations in excess of the NAAQS during calendar years 2019 or 2020, or that a monitored SO₂ NAAQS violation based on the design value occurred during calendar years 2021 and beyond, Eastman will, without any further action by Tennessee or EPA, undertake a full system audit of all emission units subject to emission limits under this plan and submit a written system audit report to Tennessee within 30 days of the notification. Upon receipt of the system audit report, Tennessee will immediately begin a 30-day evaluation period to diagnose the cause of the monitored exceedance. This evaluation will be followed by a 30-day consultation period with Eastman to develop and implement operational changes necessary to prevent future monitored violations of the NAAQS. These changes may include fuel switching to reduce or eliminate the use of sulfur-containing fuels, physical or operational reduction of production capacity, or other changes as appropriate. If a permit modification is deemed necessary, Tennessee would issue a final permit within the statutory timeframes required in Tennessee Comprehensive Rules and Regulations 1200–03–09, and any new emissions limits required by such a permit would be submitted to EPA as a SIP revision. EPA concurs and proposes to approve Tennessee’s plan for meeting the contingency measure requirement in this manner.

V. Additional Elements of Tennessee’s Submittal

To verify that the 30-day limit is resulting in continued attainment of the 1-hour SO₂ standard in the Sullivan County area, Tennessee is establishing an additional safeguard within the nonattainment area by upgrading its existing SO₂ ambient air monitoring network in the Sullivan County area. TDEC has committed to deploy additional ambient air monitors within the nonattainment area to characterize expected areas of maximum 1-hour SO₂ concentrations near the Eastman Chemical Plant. The State intends to designate the monitors as State/Local air monitoring stations in accordance with 40 CFR part 58 and locate the monitors as close as possible to the areas of expected maximum concentration. These monitors will be submitted for approval by EPA as part of the state’s annual ambient air monitoring network plan.

VI. Incorporation by Reference

EPA is proposing to include in a final EPA rule regulatory text that includes incorporation by reference. In accordance with requirements of 1 CFR 51.5, EPA is proposing to incorporate by reference into Tennessee’s SIP a natural gas fuel restriction, a new SO₂ emission limit and specified compliance conditions established in permits 966859F and 070072F for monitoring, recordkeeping and reporting parameters for emissions units at Eastman Chemical Company. Specifically, EPA is proposing to incorporate into the Tennessee SIP, a new 1,753 lbs/hr 30-day SO₂ emission limit and operating, monitoring, recordkeeping and reporting parameters all established at Condition 1 thru 4 in Permit 070072F for Boilers 18–24 at B–83 and Boilers 30–31 at B–325 and, a natural gas fuel restriction for Boilers 25–29 at B–253 (after each natural gas conversion) established at Condition 6 in Permit 966859F. The SO₂ emission standards specified in each permit are the basis for the SO₂ attainment demonstration in the SIP. EPA has made, and will continue to make, these materials generally available through www.regulations.gov and at EPA Region 4 office (please contact the person identified in the For FURTHER INFORMATION CONTACT section of this preamble for more information).

VII. EPA’s Proposed Action

EPA is proposing to approve Tennessee’s SO₂ nonattainment SIP submission, which the State submitted to EPA on May 11, 2017, for attaining the 2010 1-hour SO₂ NAAQS for the Sullivan County Area and for meeting other nonattainment area planning requirements. EPA has preliminarily determined that Tennessee’s nonattainment SIP meets the applicable requirements of sections 110(a), 172, 191 and 192 of the CAA and regulatory requirements at 40 CFR part 51. This

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24EPA notes the second note to Table 6–2 list 1,794 lbs/hr as the combined 30-day average allowable emission rate for B–83 and B–325 boilers, however, the correct emission rate is 1,753 lbs/hr.

25See email from TDEC to EPA Region 4, Air, Pesticides and Toxic Management Division, Air Director Beverly Banister on June 6, 2018 included in the docket for this proposal (ID: EPA–R04–DAR–2017–0626).
SO₂ nonattainment SIP includes Tennessee’s attainment demonstration for the Sullivan County Area and other nonattainment requirements for a RFP, RACT/RACM, NNSR, base-year and projection-year emission inventories, enforceable emission limits and compliance parameters and contingency measures. Specifically, EPA is proposing to approve into the Tennessee SIP, Eastman Chemical’s enforceable SO₂ emission limit and compliance parameters (monitoring, recordkeeping and reporting) from PSD construction permit 966859F (condition 6) and Permit No. 070072F (conditions 1–4) (see section IV.B.4.1).

VIII. Statutory and Executive Order Reviews

Under the CAA, the Administrator is required to approve a SIP submission that complies with the provisions of the Act and applicable Federal regulations. See 42 U.S.C. 7410(k); 40 CFR 52.02(a). Thus, in reviewing SIP submissions, EPA’s role is to approve state choices, provided that they meet the criteria of the CAA. This action merely proposes to approve state law as meeting Federal requirements and does not impose additional requirements beyond those imposed by state law. For that reason, this proposed action:

- Is not a significant regulatory action subject to review by the Office of Management and Budget under Executive Orders 12866 (58 FR 51735, October 4, 1993) and 13563 (76 FR 3821, January 21, 2011);
- Is not an Executive Order 13771 (82 FR 9339, February 2, 2017) regulatory action because SIP approvals are exempted under Executive Order 12866;
- Does not impose an information collection burden under the provisions of the Paperwork Reduction Act (44 U.S.C. 3501 et seq.);
- Is certified as not having a significant economic impact on a substantial number of small entities under the Regulatory Flexibility Act (5 U.S.C. 601 et seq.);
- Does not contain any unfunded mandate or significantly or uniquely affect small governments, as described in the Unfunded Mandates Reform Act of 1995 (Pub. L. 104–4);
- Does not have Federalism implications as specified in Executive Order 13132 (64 FR 43255, August 10, 1999);
- Is not an economically significant regulatory action based on health or safety risks subject to Executive Order 13045 (62 FR 19885, April 23, 1997);
- Is not a significant regulatory action subject to Executive Order 13211 (66 FR 28355, May 22, 2001);
- Is not subject to requirements of section 12(d) of the National Technology Transfer and Advancement Act of 1995 (15 U.S.C. 272 note) because application of those requirements would be inconsistent with the CAA; and
- Does not provide EPA with the discretionary authority to address, as appropriate, disproportionate human health or environmental effects, using practicable and legally permissible methods, under Executive Order 12898 (59 FR 7629, February 16, 1994).

The SIP is not approved to apply on any Indian reservation land or in any other area where EPA or an Indian tribe has demonstrated that a tribe has jurisdiction. In those areas of Indian country, the rule does not have tribal implications as specified by Executive Order 13175 (65 FR 67249, November 9, 2000), nor will it impose substantial direct costs on tribal governments or preempt tribal law.

List of Subjects in 40 CFR Part 52

Environmental protection, Air pollution control, Incorporation by Reference, Intergovernmental relations, Reporting and recordkeeping requirements, Sulfur oxides.

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

Dated: June 19, 2018.

Onis “Trey” Glenn, III, Regional Administrator, Region 4.

[FR Doc. 2018–14097 Filed 6–28–18; 8:45 am]

BILLING CODE 6560–50–P

ENVIRONMENTAL PROTECTION AGENCY

40 CFR Part 52


Approval and Promulgation of Implementation Plans; Arkansas; Interstate Transport Requirements for the 2012 PM₂.⁵ NAAQS and Definition Update

AGENCY: Environmental Protection Agency (EPA).

ACTION: Proposed rule.

SUMMARY: Pursuant to the Clean Air Act (CAA or Act), the Environmental Protection Agency (EPA) is proposing to approve portions of the Arkansas State Implementation Plan (SIP) submittal addressing the CAA requirement that SIPs address the potential for interstate transport of air pollution to significantly contribute to nonattainment or interfere with maintenance of the 2012 fine particulate matter (PM₂.⁵) National Ambient Air Quality Standards (NAAQS) in other states. EPA is proposing to determine that emissions from Arkansas sources do not contribute significantly to nonattainment in, or interfere with maintenance by, any other state with regard to the 2012 PM₂.⁵ NAAQS. The EPA is also proposing to approve a revision to update incorporation by reference of NAAQS germane to this proposed action.

DATES: Written comments must be received on or before July 30, 2018.

ADDRESSES: Submit your comments, identified by Docket Number EPA–R06–OAR–2017–0435, at http://www.regulations.gov or via email to fuerst.sherry@epa.gov. Follow the online instructions for submitting comments. Once submitted, comments cannot be edited or removed from Regulations.gov. The EPA may publish any comment received to its public docket. Do not submit electronically any information you consider to be Confidential Business Information (CBI) or other information whose disclosure is restricted by statute. Multimedia submissions (audio, video, etc.) must be accompanied by a written comment. The written comment is considered the official comment and should include discussion of all points you wish to make. The EPA will generally not consider comments or comment contents located outside of the primary submission (i.e. on the web, cloud, or other file sharing system). For additional submission methods, please contact Sherry Fuerst, 214–665–6454, fuerst.sherry@epa.gov. For the full EPA public comment policy, information about CBI or multimedia submissions, and general guidance on making effective comments, please visit http://www2.epa.gov/dockets/commenting-epa-dockets.

Docket: The index to the docket for this action is available electronically at www.regulations.gov and in hard copy at the EPA Region 6, 1445 Ross Avenue, Suite 700, Dallas, Texas. While all documents in the docket are listed in the index, some information may be publicly available only at the hard copy location (e.g., copyrighted material), and some may not be publicly available at either location (e.g., CBI).

FOR FURTHER INFORMATION CONTACT: Sherry Fuerst, 214–665–6454, fuerst.sherry@epa.gov. To inspect the hard copy materials, please schedule an appointment with Ms. Fuerst or Mr. Bill Deese at 214–665–7253.

SUPPLEMENTARY INFORMATION: Throughout this document wherever “we,” “us,” or “our” is used, we mean the EPA.