Overview

• Regional Haze Update
• NAAQS Implementation
  • Sulfur Dioxide (SO₂)
  • Ozone (O₃)
  • Particulate Matter (PM₂.₅)
  • Lead (Pb)
  • Exceptional Events
  • Startup, Shutdown & Malfunction Policy (SSM)
• Environmental Justice
• Permit Program Updates
Regional Haze Program Update

- Second planning period regional haze information from EPA: https://www.epa.gov/visibility/visibility-guidance-documents
- SIP deadline was July 31, 2021.
- As of 4/4/22 EPA has received 16 final SIPs: DC, NY, NJ, TX, WI, OH, MA, KS, MI, FL, IN, CT, WA, MD, TN, NC and SC.
- EPA intends to make Findings of Failure to Submit by August 31, 2022; cutoff for SIP submissions August 15, 2022.

### Regional Haze SIP Status

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<thead>
<tr>
<th>Regional Haze SIP Status</th>
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<tr>
<td>EPA Final Actions Published</td>
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<td>Submitted SIPs Awaiting EPA Action</td>
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Regional Haze Program Update (cont.)

• EPA previously committed to reconsidering certain aspects of the 2017 Regional Haze Rule revisions, including FLM consultation and RAVI provisions.

• Other rule changes for the 3rd planning period and beyond may also be considered.

• We look forward to communicating with states and other stakeholders on this topic in the coming year.
<table>
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**SO₂ Nonattainment Areas by Status and Designations Round**

as of March 14, 2022
SO\textsubscript{2} NAAQS Implementation Update

• Round 1 NA Areas
  • Indiana, PA: EPA proposed partial disapproval of remanded attainment plan on March 17, 2022.
  • Detroit, MI: Forthcoming proposed FIP. Final FIP settlement deadline of September 30, 2022.
  • Sullivan Co, TN: Finding of Failure to Attain is pending final EPA action under settlement deadline of March 31, 2022.

• Round 2 NA Areas
  • EPA has not taken final action on any attainment plans yet.
  • EPA has deadlines for final action on SIPs for 3 of the 6 remaining areas.

• Round 3 NA Areas
  • FFS attainment plans issued for Round 3 areas on November 3, 2020.
  • SIP action/FIP deadline is December 3, 2022.

• Round 4 NA Areas
  • Deadline for SIP submittal is October 30, 2022
  • Aluminum smelters are located in many of these areas; Regions are collaborating on issues common to this sector.
SO$_2$ Transport SIP Update

- EPA has 13 complete SIP submittals that are under review: IA, IN, LA, MD, MS, NC, NJ, NY, OH, OK, TN, TX, WI.
- EPA is reviewing large sources of SO$_2$ near state borders that may have interstate transport implications.
- SIP deadline was 6/2/2013.

### 1-hour SO$_2$ Transport SIP Status as of March 1, 2022

<table>
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<td>State SIPS Outstanding</td>
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Reconsideration of Ozone NAAQS

• On October 28, 2021, EPA announced that it will reconsider the 2020 decision to retain the existing ozone NAAQS.

• EPA intends to complete the reconsideration by the end of 2023.
  • On December 21, 2021, the Court ordered that consolidated litigation cases be held in abeyance until December 15, 2023.

• The CAA deadline for nonattainment designations would be 2 years after promulgation of a revised NAAQS, potentially by the end of 2025 based on 2022-2024 or 2023-2025 monitoring data (if NAAQS is finalized in 2024).
Ozone NAAQS Implementation Update

2008 standard
- Determinations of attainment for Serious areas
  - Attainment deadline was July 2021
  - EPA action due January 20, 2022
  - To be proposed soon
- 2008 ozone bump-up SIPs for Serious areas were due August 3, 2020

2015 standard
- Determinations of attainment for Marginal areas
  - Attainment deadlines August/Sept 2021
  - EPA action due Feb 3/Mar 24, 2022
  - To be proposed soon
- Updated nonattainment area boundaries for El Paso and Denver effective December 31, 2021.
- 2015 ozone initial nonattainment NSR SIPs/certifications were due August 3, 2021 – 23 areas have outstanding SIP submissions.
Additional Ozone NAAQS Implementation Updates

• Contingency Measures (CMs)
  • Recent court decisions have invalidated the past practice of relying on surplus mobile reductions from fleet turnover to satisfy the CM requirement for nonattainment plans because these measures are not prospective and conditional (i.e., CM cannot be “already implemented”).
  • Future SIPs submittals should contain CMs that are prospective and conditional, not already implemented.
  • In recognition of the resulting challenges that some areas face in developing valid CMs, EPA convened an internal task force to evaluate whether changes to CM policy/guidance are warranted.

• Ozone Implementation Rule Revisions
  • EPA is still contemplating the scope and timing for potential revisions to ozone implementation rules to address 2018 South Coast decision, 2021 Sierra Club decision, and other emerging issues.
2015 Ozone Transport SIP Status (as of 3/16/22)

- EPA has received SIPs for 49 of 56 states/jurisdictions.
- Final approval action taken on 21 SIPs, proposed approval on 3 others, 19 proposed disapprovals.
- In the coming months, EPA will continue to act on SIPs, consistent with deadlines established by consent decrees:
  - Two final SIP action deadlines: April 30, 2022, and December 15, 2022.
  - The later deadline applies only for 1) eastern US states where EPA has proposed a FIP by February 28, 2022, and 2) several western US states.
  - The earlier deadline applies for eastern states where EPA has not proposed a FIP.
- Action on SIPs is consistent with analytical framework used in the proposed ozone transport federal plan for 2015 ozone NAAQS.
Upwind States Contributing Above 1% of the 2015 ozone NAAQS
States Covered by Proposed FIP Obligations

- Covered for both power plant and other industries
- Covered for power plants only
- Covered for other industries only

Delaware, Nevada, Utah, and Wyoming are new to the CSAPR power plant program.
EGU Reductions in 2026 Relative to 2021
(Adjusted for known retirements and new builds)

Non-EGU Sources/Sectors Covered by Proposed FIP

- Reciprocating internal combustion engines in *Pipeline Transportation of Natural Gas*
- Kilns in *Cement and Concrete Product Manufacturing*
- Boilers and furnaces in *Iron and Steel Mills and Ferroalloy Manufacturing*
- Furnaces in *Flat Glass and Glass Products Manufacturing* (includes flat glass, glass container, pressed and blown glass and glassware manufacturing)
- Boilers in *Basic Chemical Manufacturing*
- Boilers in *Petroleum and Coal Products Manufacturing*
- Boilers in *Pulp, Paper, and Paperboard Mills*
Non-EGU Emissions Reductions in 2026 Relative to 2019


<1%
Reconsideration of PM NAAQS

Schedule
• 22-member CASAC PM Panel established in August 2021
• Target schedule: proposal in Summer 2022; final in Spring 2023.

March 18, 2022 CASAC Review of the EPA’s Policy Assessment
• Annual PM$_{2.5}$ standard: The CASAC reached consensus that the current level of 12 μg/m$^3$ is not adequate for the primary annual PM$_{2.5}$ standard, but did not reach consensus on an alternate level
  • Majority of members recommend revision to a level between 8-10 μg/m$^3$
  • Minority of members recommend revision to a level between 10-11 μg/m$^3$
• 24-hour PM$_{2.5}$ standard: The CASAC did not reach consensus on whether the primary 24-hour PM$_{2.5}$ standard should be revised or retained.
  • Majority of members conclude that the current standard is not adequately protective, in conjunction with the annual standard, and recommend revision to a level of 25-30 μg/m$^3$
  • Minority of members recommend retaining current standard of 35 μg/m$^3$
# Progress on PM NAAQS Attainment

**effective 2/28/22**

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<td>Initial Nonattainment Areas</td>
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<td>9</td>
<td>89</td>
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<td>Areas Redesignated to Attainment</td>
<td>35</td>
<td>19</td>
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<td>Current Nonattainment Areas</td>
<td>3 CDDs 1 Serious</td>
<td>8 Mod./CDDs 5 Serious (incl 2 CDDs)</td>
<td>3 Moderate (incl 1 CDD) 2 Serious</td>
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<td>Attainment Deadlines</td>
<td>Serious: 2021</td>
<td>Various</td>
<td>Moderate: 2021 Serious: 2025</td>
<td>Various</td>
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</table>
Lead (Pb) NAAQS Implementation Update

- Of the 22 areas designated nonattainment for the 2008 Pb NAAQS, 12 have been redesignated to attainment.

- Eight areas violated the 2008 Pb NAAQS based on 2020 design values
  - Five are nonattainment areas: Troy, AL; Hayden, AZ; Lake Co, IN; Arecibo, PR; Jefferson, MO
  - Three are attainment areas: Stark, OH; Kaufman, TX; Madison, KY

- EPA’s focus:
  - Assessing opportunities for reducing impacts from Pb as a criteria pollutant and HAP, especially on vulnerable populations. This includes working with our monitoring, permitting and sectors groups to locate and address areas or facilities that may have on-going or emerging Pb-related issues.
  - Engaging with Agency-wide Pb strategy effort to address Pb-related multi-media issues more holistically with all partners.
  - Pb NAAQS review is under way.
Exceptional Events Update

• EPA has concurred on 110 state demonstrations that were submitted since EPA revised the Exceptional Events Rule in September 2016.

• An increasing number of demonstrations are for wildfire events. EPA received a record number of wildfire event initial notifications since Jan 1, 2021.

• States have submitted 39 final demonstrations through the Exceptional Events Submission and Tracking System that was deployed in August 2020.

• EPA’s exceptional events webpage provides additional resources, including example demonstrations for Ozone and PM and will continue to be updated as new materials become available.
  • https://www.epa.gov/air-quality-analysis/treatment-air-quality-data-influenced-exceptional-events
Provisions Concerning Start-Up, Shutdown and Malfunction (SSM) Events in SIPs

• EPA continues to implement the 2015 SSM Policy following the September 2021 McCabe memo reinstating it. That memo affirmed that:
  • Automatic and discretionary exemptions from SIP emissions limits are inconsistent with the CAA.
  • Affirmative defense provisions in SIPs are also inconsistent with the CAA.
  • The 2015 SSM SIP Calls (other than TX, NC, and IA) remain in effect.

• Recent implementation steps include:
  • Several proposed or final actions on SIPs submitted in response to the 2015 SIP Call.
  • January 4, 2022 Findings of Failure to Submit (FFS) for 12 overdue SIP Call responses.

• Future implementation steps include
  • Continuing to act on the ~30 pending SIP Call response submittals and other SSM-related submittals
  • Revisiting (through notice-and-comment) actions in 2020 for TX, NC, and IA that withdrew SSM SIP Calls using rationale that is inconsistent with the 2015 Policy.
Environmental Justice

• EPA has made it a priority to infuse equity and environmental justice principles and priorities into all EPA practices, policies, and programs.
  • EPA has defined environmental justice as “the fair treatment and meaningful involvement of all people regardless of race, color, national origin, or income with respect to the development, implementation and enforcement of environmental laws, regulations and policies.”

• Efforts ongoing at all levels at EPA to refine objectives and strategies for incorporating EJ into our work.

• EPA is assessing how to address potential environmental justice concerns in rulemakings, SIP reviews, and permitting.
Environmental Justice (cont.)

• State Implementation Plans:
  • See Fine Particulate Matter National Ambient Air Quality Standards: State Implementation Plan Requirements (81 FR 58010, August 24, 2016).
  • Includes discussion on actions that could be considered for overburdened populations.
  • Attainment plan control strategies (section IV.D.6 page 58033 and section VI.D.7 page 58080).
  • Measures to ensure appropriate protections for overburdened populations (section IX.G page 58136).

• Permitting:
  • Identifying best practices for promoting meaningful engagement with communities.
  • How to identify communities of concern, develop appropriate analytical tools and safeguards.
Permitting Program Updates

- Sufficiency of minor NSR program provisions
  - Public notice/participation requirements.
  - Guidance/oversight related to synthetic minor permitting.

- Project Emissions Accounting for determining major modification applicability
  - Discretionary rulemaking to consider issues raised in a January 2021 petition.
  - Related actions: Guidance: 83 FR 13745 (3/13/18); Project Emissions Accounting Final Rule: 85 FR 74890 (11/24/20); Petition for Reconsideration received on Project Emissions Accounting (1/22/21); Denial of Petition for Reconsideration: 86 FR 57585 (10/18/21)
Permitting Program Updates (Cont.)

• Enforceability and Use of Actual-to-Projected-Actual Applicability Test
  • 12/7/17 Pruitt “Enforcement Discretion” Memo

• NSR Source Reactivation Policy
  • Articulated in Dec 2020 Limetree Bay PAL permit.

• 2008 Fugitive Emissions Rule reconsideration
  • New proposed rule would require fugitives to be counted in all new and modified major source determinations.

• Definitions of “Potential to Emit” in permitting and section 112 rules
  • EPA plans to address the parallel PTE definitions in permitting & air toxics program regulations as part of the reconsideration of *Reclassification of Major Sources as Area Sources under Section 112 Rule* (MM2A or Once In/Always In) promulgated November 19, 2020 (see 85 FR 73854); effective January 19, 2021.
  • Final rule changed “federally enforceable” to “enforceable” but did not finalize proposed amendment to PTE definition in 40 CFR Part 63.
Title V Program Update

• Citizen Petitions
  • EPA typically receives and responds to 10-20 Title V petitions per year.
  • From Oct 1, 2016 – Apr 1, 2022, EPA received 75 petitions, resolved 103 petitions.
  • Monitoring a primary issue; especially for synthetic minor permits. Most common type of claim EPA grants.

• Removal of Title V Affirmative Defense Provisions
  • Renewal of 2016 proposal, signed March 28, 2022.

• Title V Applicable Requirements Rule
  • Clarify the definition of “applicable requirement” within title V program.

• EPA Office of Inspector General January 2022 report “EPA’s Title V Program Needs to Address Ongoing Fee Issues and Improve Oversight.”
  • OIG conducted 31 Title V program evaluations from 2018 through 2020.
  • Indicated more than half (52 percent) did not undergo a Title V fee evaluation, despite having indicators that should have triggered such a fee evaluation.
  • Concluded that declining Clean Air Act Title V fee revenues and the misuse of Title V funds pose a “significant challenge” to EPA and state and local Title V permitting authorities.
Pursuant to OIG recommendations, EPA will:

**Develop/implement a plan to address declining Title V revenues** – (1) convene a workgroup, identify key stakeholders and plan for consultations; (2) conduct consultations with permitting authorities to scope fee deficiencies and fee structures and identify current best practices; and (3) implement the strategies identified.

**Update EPA’s 2018 Title V fee guidance** to (1) set expectations on time frames for permitting authorities to complete corrective actions in program and fee evaluations and clear, escalating consequences if timely corrective actions are not completed; and (2) establish criteria for how and when EPA must conduct Title V fee evaluations.

**Provide recurring training** on Clean Air Act Title V fee laws, regulations and guidance to EPA staff and permitting agencies.
Outer Continental Shelf Permitting

• OCS air permits are “umbrella permits” for air pollution control from sources located in the OCS. OCS permitting requirements include:
  • NSPS, NESHAPs, NSR/PSD, nonattainment NSR, title V and any other state/local requirements applicable in the Corresponding Onshore Area (except for outer OCS projects).

• EPA has delegated the OCS permitting program for inner OCS projects to Virginia, Maryland and Delaware and 4 permitting authorities in CA (Santa Barbara, San Luis Obispo, South Coast and Ventura County).

• Two OCS wind energy permits have been issued recently by EPA:

• Recent policy interpretations:
  • Pull-ahead anchor Cable Laying Vessels are not OCS sources.
  • Permitting-related emissions offsets are not required for OCS construction emissions.

• Emerging OCS permitting issues currently being evaluated include:
  • Which equipment, activities or facilities constitute an OCS source and at what point in time does the OCS source exist?
  • Air quality modeling analysis requirements for OCS sources’ construction emissions during extended construction periods (e.g., > 2 years)
Questions and Comments
FY 2022-2026 EPA STRATEGIC PLAN
Long-Term Performance Goals

• **Goal 4: Air**, includes Obj 4.1:
  - Reduce ozone season emissions of nitrogen oxides from electric power generation sources by 21% from the 2019 baseline of 390,354 tons.
  - Improve measured air quality in counties not meeting the current National Ambient Air Quality Standards from the 2016 baseline by 10%.
  - Strive to ensure all people with low socio-economic status live in areas where the air quality meets the current fine particle pollution National Ambient Air Quality Standards.

• **Goal 2: Environmental Justice**, includes:
  - Obj 2.1 EPA programs with direct implementation authority will take at least 100 significant actions that will result in measurable improvements in Indian country.
  - Obj 2.2 All EPA programs and regions will identify and implement areas and opportunities to integrate environmental justice considerations and achieve civil rights compliance in their planning, guidance, policy directives, monitoring, and review activities.

• **FY 2022-2023 Agency Priority Goals**, includes:
  - Deliver tools and metrics for EPA and its Tribal, state, local, and community partners to advance environmental justice and external civil rights compliance. By September 30, 2023, EPA will develop and implement a cumulative impacts framework, issue guidance on external civil rights compliance, establish a set of at least 10 indicators to assess EPA’s performance in reducing disparities in environmental and public health conditions, and train staff and partners on how to use these resources.
Improving State Implementation Plan Reviews:
SIPs Pending EPA Review FY 2014 – April 1, 2022
State Planning electronic Collaboration System (SPeCS)
• In 2016, through a partnership with E-Enterprise and ECOS, an EPA-State project team began developing SPeCS for electronically submitting, reviewing, tracking and publicly reporting on state implementation plans (SIPs) and related demonstrations.
• Currently, all 50 states and 8 local air agencies voluntarily use SPeCS to submit SIPs to EPA.
• Since 2018, over 1,300 draft and final state plans have been submitted through SPeCS.

Exceptional Events Submission and Tracking System (EETS)
• The EETS is a web-based system enabling air agencies to submit exceptional events demonstrations and mitigation plans for EPA review and approval. It is EPA’s preferred method for receiving such submissions.
• EPA worked with air agency representatives and partnered with E-Enterprise and ECOS to develop EETS.
• More than 30 states and several local air agencies are registered to use the system. Since launching the system in August 2020, we have received more than 60 submissions, 39 of these are final demonstrations.

Green Book  www.epa.gov/green-book
• The EPA Green Book provides up-to-date detailed information about area NAAQS nonattainment area designations, classifications and nonattainment status.
• Information is available in reports, maps and data downloads, as well as links to relevant Federal Register actions.
Electronic Data Systems Support

Electronic Permitting System (EPS)
• EPS was developed in close coordination with state partners and ECOS to provide a central system for states to transmit Clean Air Act permits for EPA review, and then facilitate communication between EPA and the state regarding EPA review of those permits.
• Completed March 2020.
• As of March 2022, EPS has received about 4,500 permit actions from 22 states and 63 local permitting authorities spread over Regions 1, 4, 9, and 10.

Compliance and Emissions Data Reporting Interface (CEDRI)
• Allows affected sources to electronically submit performance test reports, notification reports, and periodic reports to EPA.
• Facilitates compliance under parts 49, 70, 71 (federal tribal minor NSR under Part 49; state, local or tribal title V program approved under Part 70; federal title V program under Part 71)
• About 400 reports from 10 different states have been submitted under Part 49, Part 70, and Part 71.
• A collaborative program for states, tribes, and local governments to avoid nonattainment and achieve ongoing emission reductions in areas designated as attainment or maintenance for ozone and/or PM$_{2.5}$ NAAQS.
• Currently 46 partner areas covering more than 50 million population. Partners include states, tribal nations, cities, counties, councils of government, regional planning commissions.

Goals
1) Leverage programs and planning to address air quality, climate, and environmental justice objectives;
2) Help meet the environmental, health, economic development, and quality of life goals in the participating area.

Benefits of partnership
• Avoid the costs of nonattainment designation for ozone or PM2.5 while collaborating with local stakeholders
• Implement ozone and PM$_{2.5}$ programs that also support climate goals and address concerns of EJ communities
• Obtain technical assistance from multiple EPA offices and other agencies like DOE and DOT
• Attend monthly meetings with partners sharing best practices and EPA training on programs and tools
• Receive monthly newsletter on grants and training opportunities

Requirements
Advance Partners provide EPA with annual plan updates describing progress in implementing relevant programs in their communities (e.g., to reduce emissions from mobile sources and stationary sources; to promote energy efficiency and renewable energy, community monitoring, education and outreach), and outlining plans for the next year.

For more info, contact Rich Damberg (damberg.rich@epa.gov) and Mia South (south.mia@epa.gov)