

NAAQS, Regional Haze & Permit Program Implementation Updates

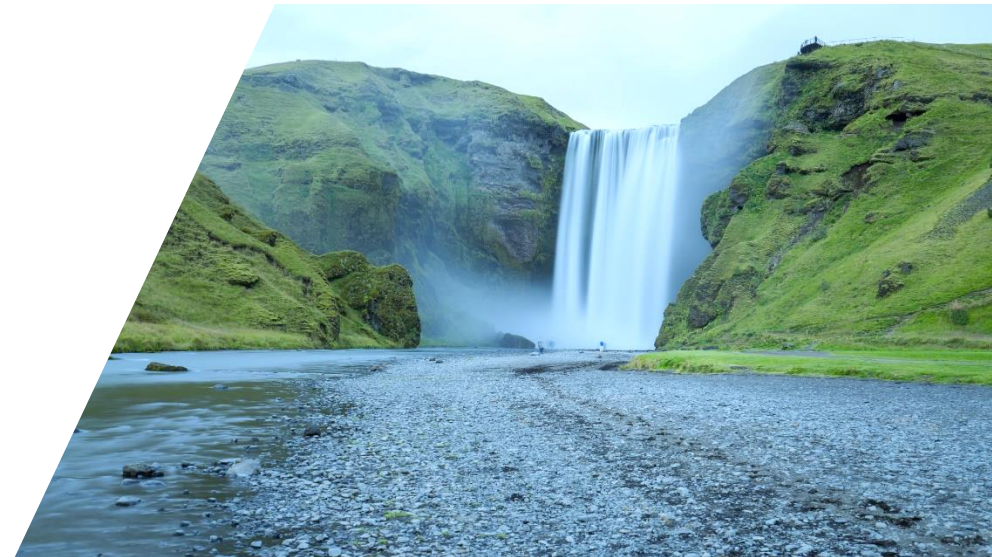
AAPCA Virtual Spring Meeting
April 22, 2021



Scott Mathias, Director
Air Quality Policy Division
Office of Air Quality Planning and Standards

Overview

- Executive Orders
- Progress on NAAQS Nonattainment Areas
- Progress on SIP Reviews
- Implementation Program Updates
 - Regional Haze
 - Sulfur Dioxide (SO₂)
 - Ozone (O₃) & Ozone Transport
 - Particulate Matter (PM_{2.5} & PM₁₀)
 - Exceptional Events
 - International Emissions Transport
 - General Conformity
- Permit Program Updates



Executive Order on Protecting Public Health and the Environment and Restoring Science to Tackle the Climate Crisis

(E.O. 13990 of Jan 20, 2021)



- Review and as appropriate take action to address Federal regulations and other actions of the last 4 years that conflict with objectives to...
 - ensure the integrity of Federal decision-making;
 - listen to the science;
 - improve public health and protect our environment;
 - ensure access to clean air;
 - hold polluters accountable;
 - reduce greenhouse gas emissions.
- Consider proposing new standards for methane and VOC emissions from existing operations in the oil and gas sector by September 2021.
- Consider proposing a FIP for states found to have failed to submit a SIP revision addressing the 2016 Oil & Natural Gas Industry CTG for the 2008 Ozone NAAQS (CA, CT, NY, PA, TX) by January 2022.
- Submit preliminary list to OMB by February 19, 2021 any responsive actions being considered for completion by December 31, 2021. Submit revised list by April 20, 2021 any actions being considered for completion by December 31, 2025.



List of Agency Actions for Review

(FACT SHEET of Jan 20, 2021)

- Lists 48 EPA actions, including approximately 18 actions related to regulating criteria pollutants and air toxics, including:
- Review of Ozone and PM NAAQS (from December 2020)
- Oil and Natural Gas Sector: Emissions Standards for New, Reconstructed, and Modified Sources (from September 2020)
- Dallas-Fort Worth and Houston-Galveston-Brazoria Area Redesignation and Maintenance Plans for Revoked Ozone NAAQS (from February and April 2020)
- SAFE Vehicle Rules MY2021-2026 (from September 2019 and April 2020)
- Reclassification of Major Sources as Area Sources Under Section 112 of the Clean Air Act (from November 2020)
- Memo: Provisions Governing Periods of Startup, Shutdown, and Malfunctions in SIPs (signed October 2020)
- EPA Guidance; Administrative Procedures for Issuance and Public Petitions (from October 2020)



Regulatory Freeze Pending Review

- MEMORANDUM FOR THE HEADS OF EXECUTIVE DEPARTMENTS AND AGENCIES FROM: Ronald A. Klain, Assistant to the President and Chief of Staff (January 20, 2021)
- Placed a hold on proposing or issuing rules not yet published until a department or agency head appointed or designated by President Biden reviews and approves the rule. Impacted actions included:
 - Numerous proposed and final SIP actions
 - Final SO₂ Designations Round 4 (signed December 21, 2020)
 - 2015 Ozone Designations Remand response (signed January 19, 2021)
 - Proposed Response to Maine CAA Sec. 176A Petition (signed January 11, 2021)

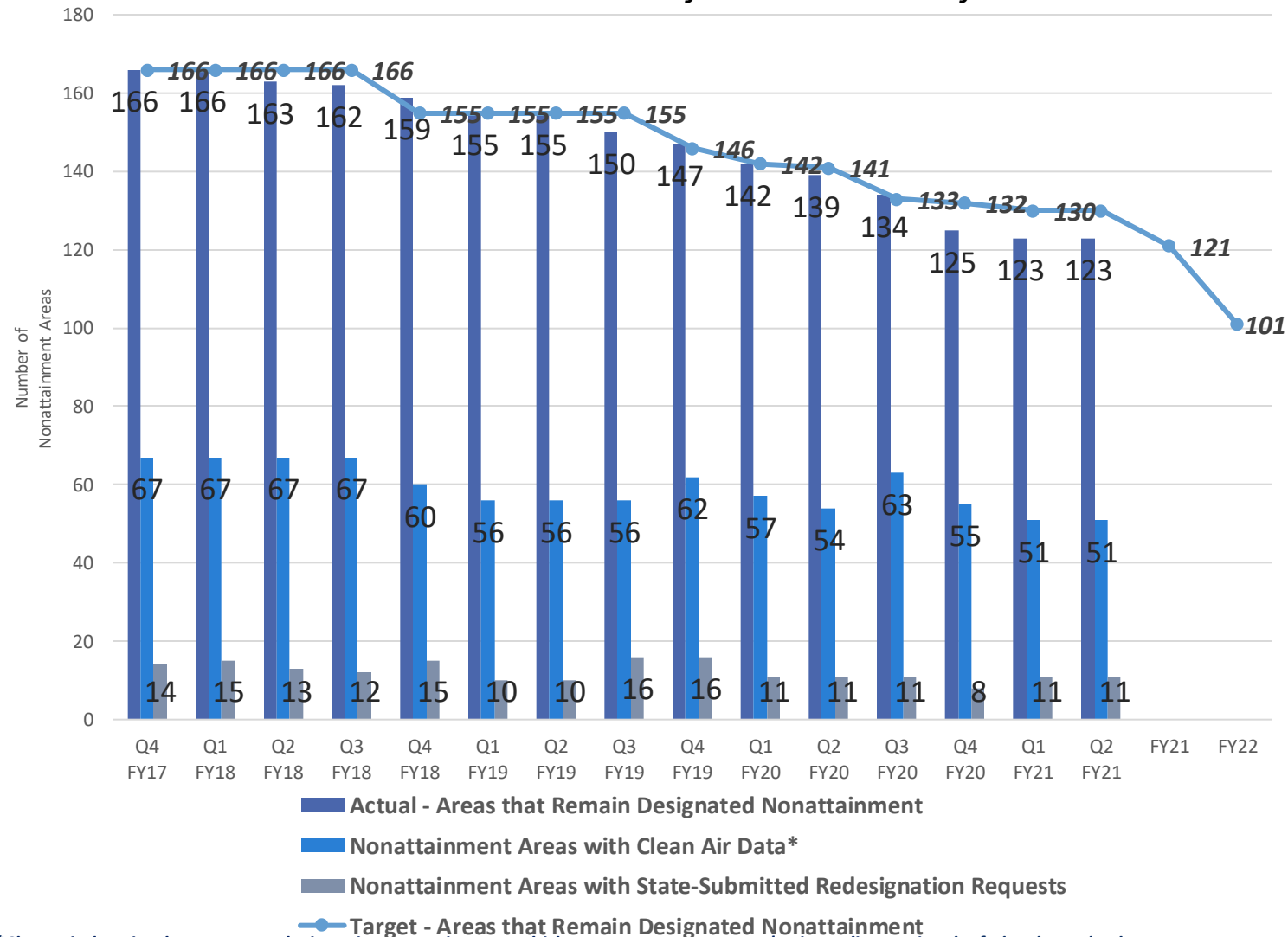


Environmental Justice

- The EPA Administrator has directed all offices to work with the Office of Environmental Justice to ensure our environmental laws and policies deliver benefits to all individuals and communities.
- 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.”
- The EPA Administrator has directed offices to
 - Strengthen enforcement of violations in communities overburdened by pollution.
 - Assess impacts to pollution-burdened, underserved, and Tribal communities in standard setting, regulatory development processes, permitting facilities and reviewing proposed actions of other federal agencies.
 - Consider regulatory options to maximize benefits to these communities.
 - Improve engagement with pollution-burdened and underserved communities affected by agency rulemakings, permitting and enforcement decisions, and policies
- Leadership will establish specific timelines, deliverables, and measures of accountability to ensure the agency makes significant and enduring progress on equity and environmental justice

Reducing Number of Nonattainment Areas

Goal: By September 30, 2022, EPA, in close collaboration with states, will reduce the number of nonattainment areas to 101 from a baseline of 166.



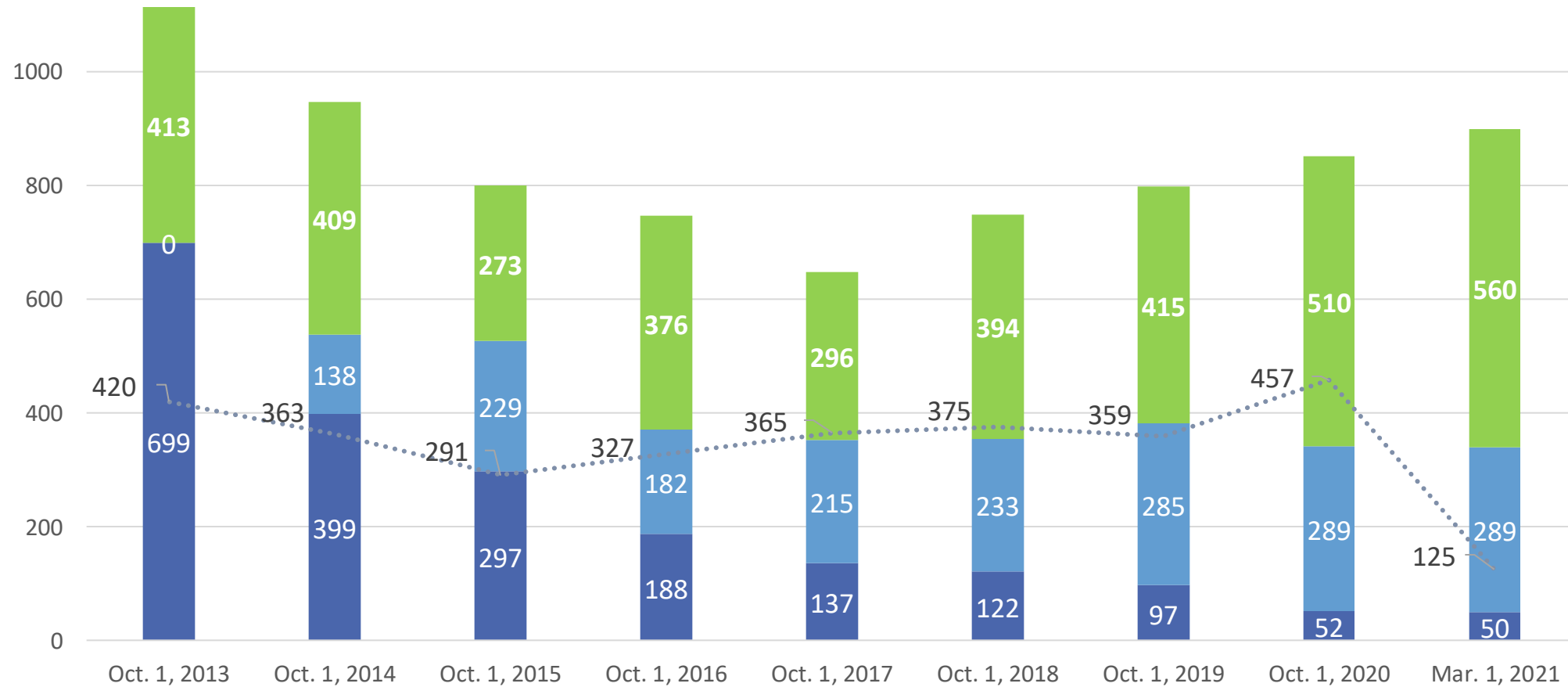
**Clean air data is a key step to redesignation to attainment, which can occur once an area's air quality attains the federal standard.*

Improving State Implementation Plan Reviews: SIPs Pending EPA Review FY 2014 – March 1, 2021

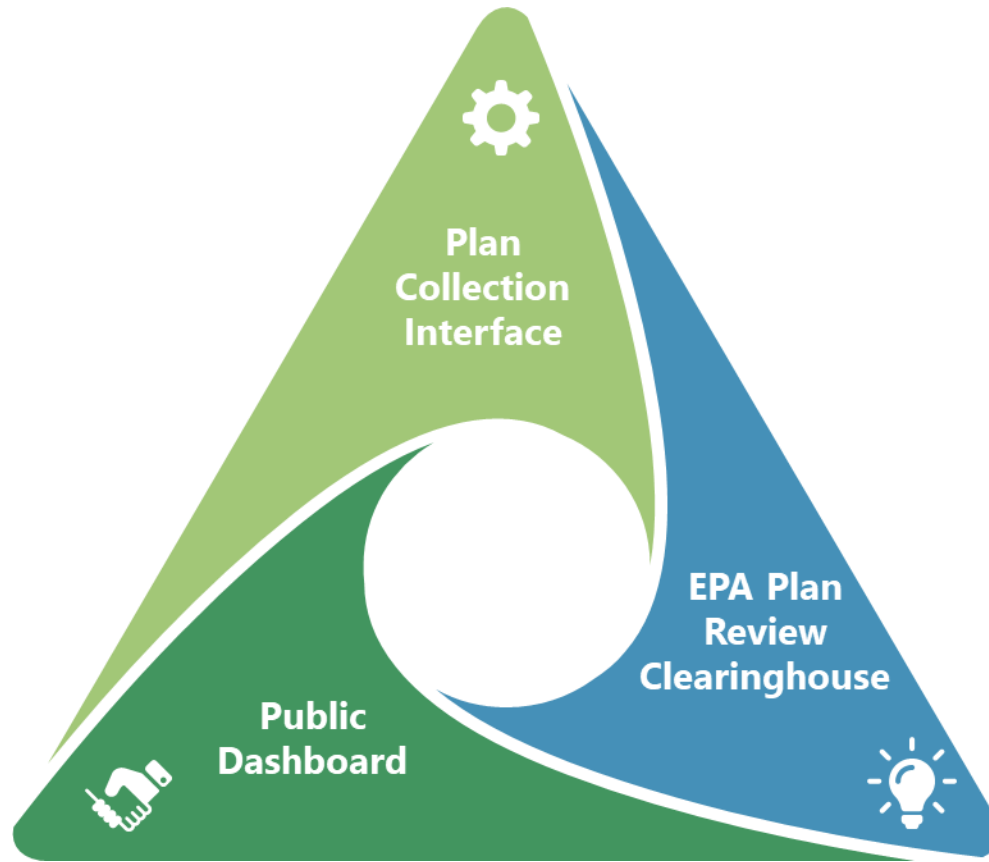


■ Backlogged Prior to 10/1/2013 ■ Backlogged After 10/1/2013 ■ Non-backlogged SIPs Submitted During Proceeding FY

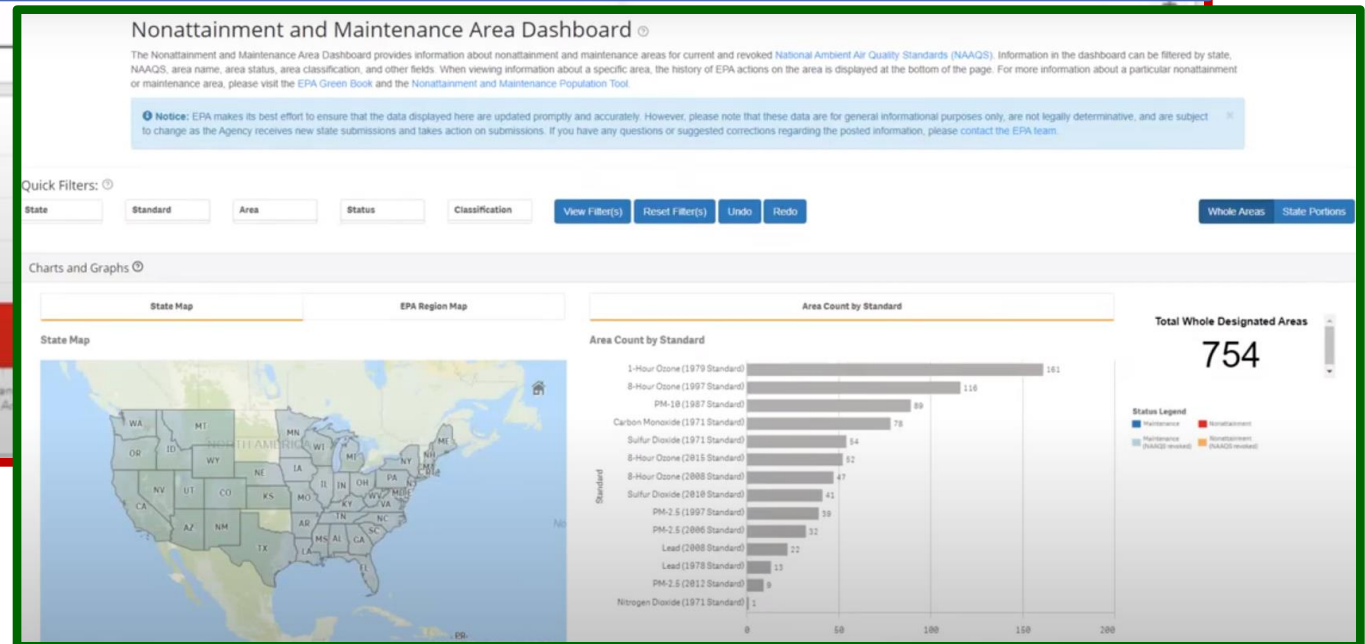
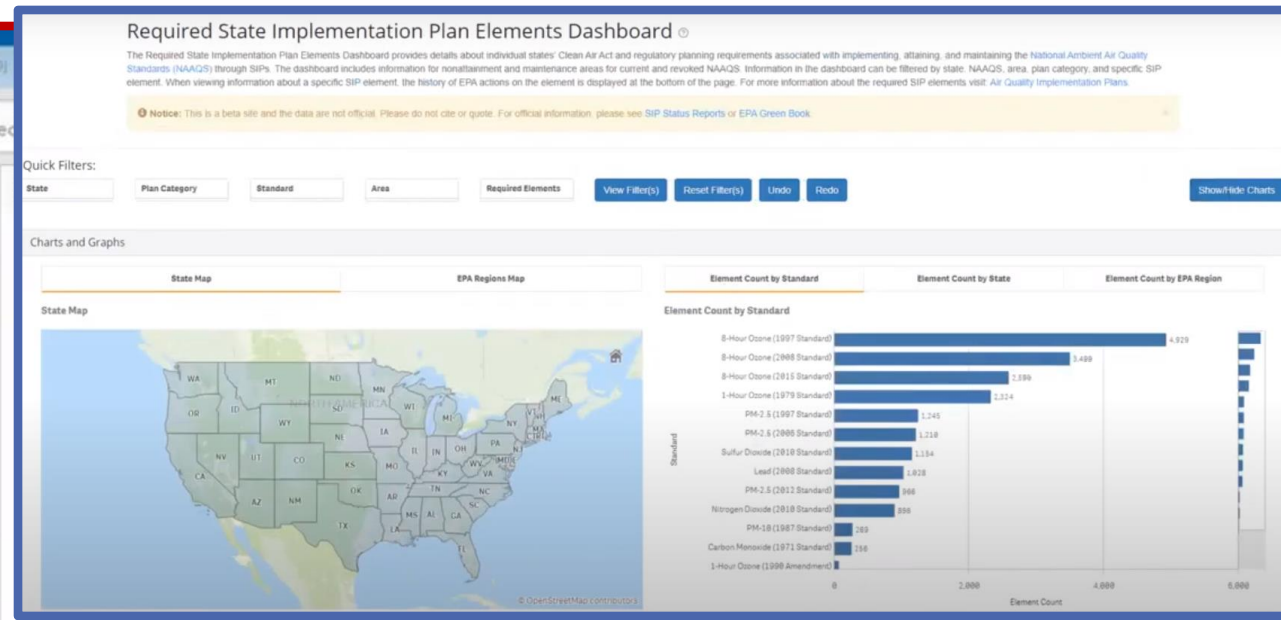
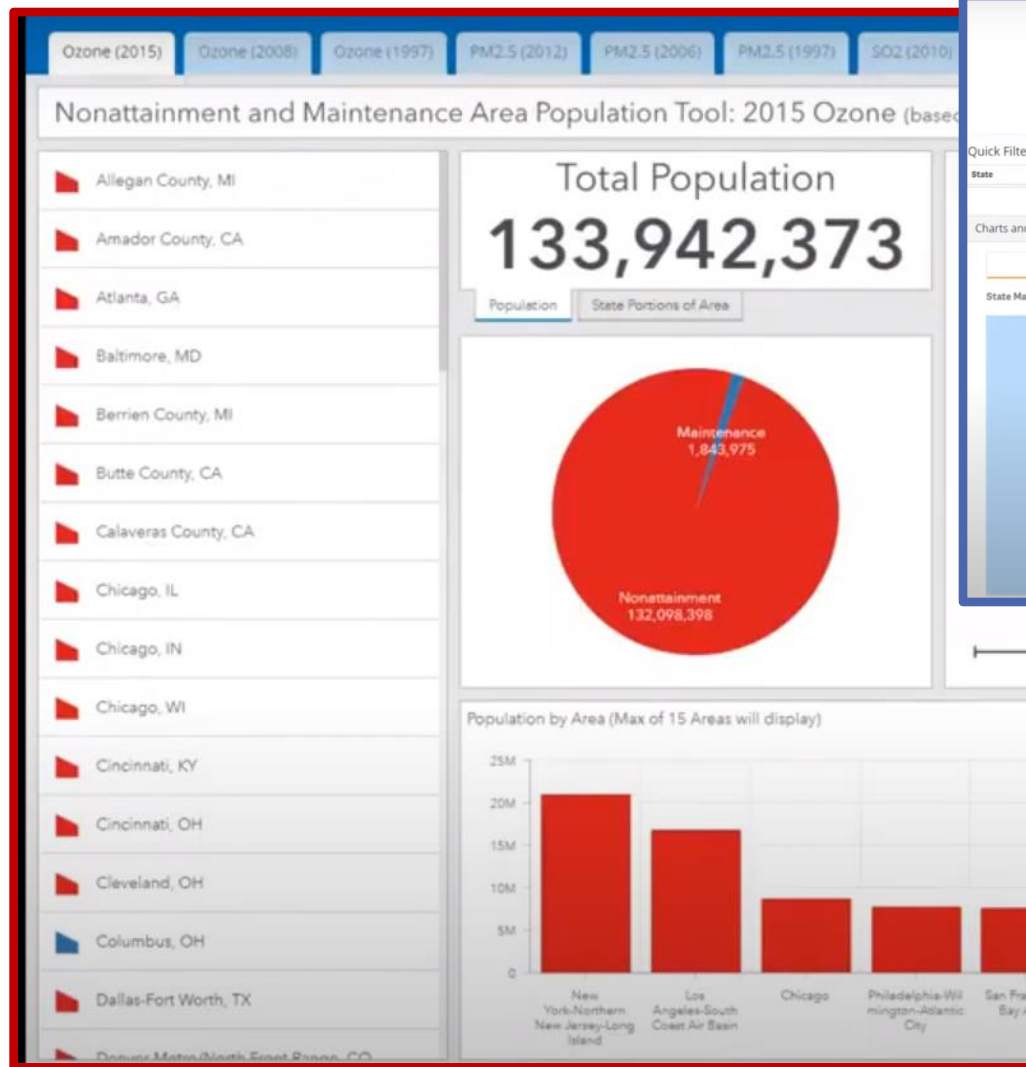
<i>SIPs acted on each FY:</i>	414	523	556	383	372	396	451	104
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State Plan Electronic Collaboration System (SPeCS) for SIPs



- Web-based system for collecting, reviewing, tracking and reporting on state air agency SIP submissions has 3 components:
 - State Plan Collection Interface
 - EPA Plan Review Clearinghouse
 - Public Dashboard (**NEW!**)
- Since January 2018, system has received more than 1,250 SIP submittals and registered 400+ users from 50 states and 8 air districts
- Related module for Exceptional Events demo submittal and tracking
- Provides access to most recent SIP processing data and management reports
- Saves states time and resources spent on plan printing, shipping, and postage
- Saves EPA resources spent on paper file storage and reporting



<https://www.epa.gov/air-quality-implementation-plans/tools-state-implementation-plan-sip-status>



Regional Haze Program Update



- Regional Haze Program focus is on planning associated with the second planning period SIPs due by July 31, 2021.
 - EPA HQ and Regional Offices continue to engage on issues associated with states' Regional Haze analyses and plan development.
 - Continue to engage with Federal Land Managers.
- EPA has received final second planning period SIPs from a few states.
 - A couple of other states have completed their state public comment process.
 - Numerous other draft SIPs are under review by FLMs and as part of the early engagement process with EPA.
- Working to resolve remaining first planning period SIP/FIPs for 8 states.

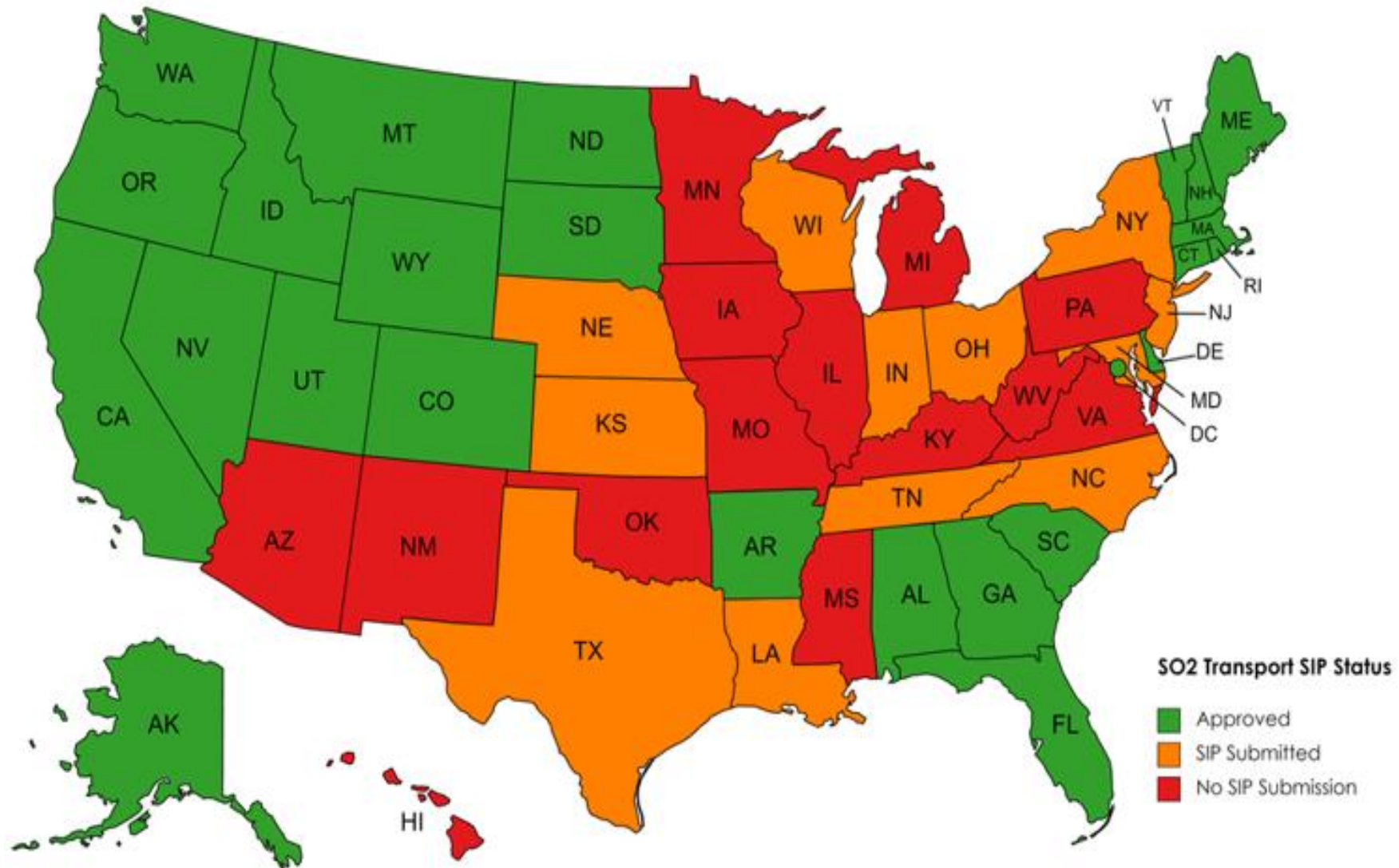
SO₂ NAAQS Implementation Update

- Remaining nonattainment areas (Rounds 1-3):
 - 25 of 41 for 2010 SO₂ NAAQS
 - 8 of 54 for 1971 SO₂ NAAQS
- EPA completed Round 4 designations
 - Designations effective date: April 30, 2021.
 - 8 additional areas designated as nonattainment.
 - EPA has now completed initial 2010 SO₂ NAAQS designations for all areas in the United States.
- In addition to focusing on attainment planning for designated nonattainment areas, EPA continues to implement the SO₂ Data Requirements Rule (DRR).
 - States that chose the modeling pathway to characterize sources subject to the DRR are required to submit on-going data verification reports by no later than July 1, 2021.
 - These reports can be submitted along with the monitoring network reports or can be submitted separately.

cont. SO₂ NAAQS Implementation Update

- EPA issued findings of failure to submit (FFS) timely attainment plans on November 3, 2020, for five Round 3 nonattainment areas:
 - Huntington IN; Evangeline Parish LA; Guayama-Salinas PR; San Juan PR; Piti-Cabras GU.
- Mandatory duty suit filed by CBD August 2020, amended October 2020, for:
 - Failure to take timely action on the Alton Township, IL (Rd 2) attainment plan.
 - Failure to make timely determinations of attainment by the attainment date for Round 1 nonattainment areas by their statutory attainment date of October 4, 2018.
 - Areas include: Hayden AZ; Miami AZ; Muscatine IA; St. Bernard Parish LA; Detroit MI; Jackson County MO; Sullivan County TN; Rhineland WI.
- Sierra Club challenging EPA's final attainment plan approvals for Indiana, PA, and Muscatine, IA (Round 1 areas).
 - Issues raised include setting longer-term average emissions limits and withdrawal of the 2015 SSM SIP call.

SO₂ Transport SIP Status



2015 Ozone NAAQS (70 ppb) Nonattainment Area Status

State infrastructure SIPs due October 1, 2018. Received 44 full, 5 partial submissions. Finding of failure to submit issued to 7 states on January 6, 2020.



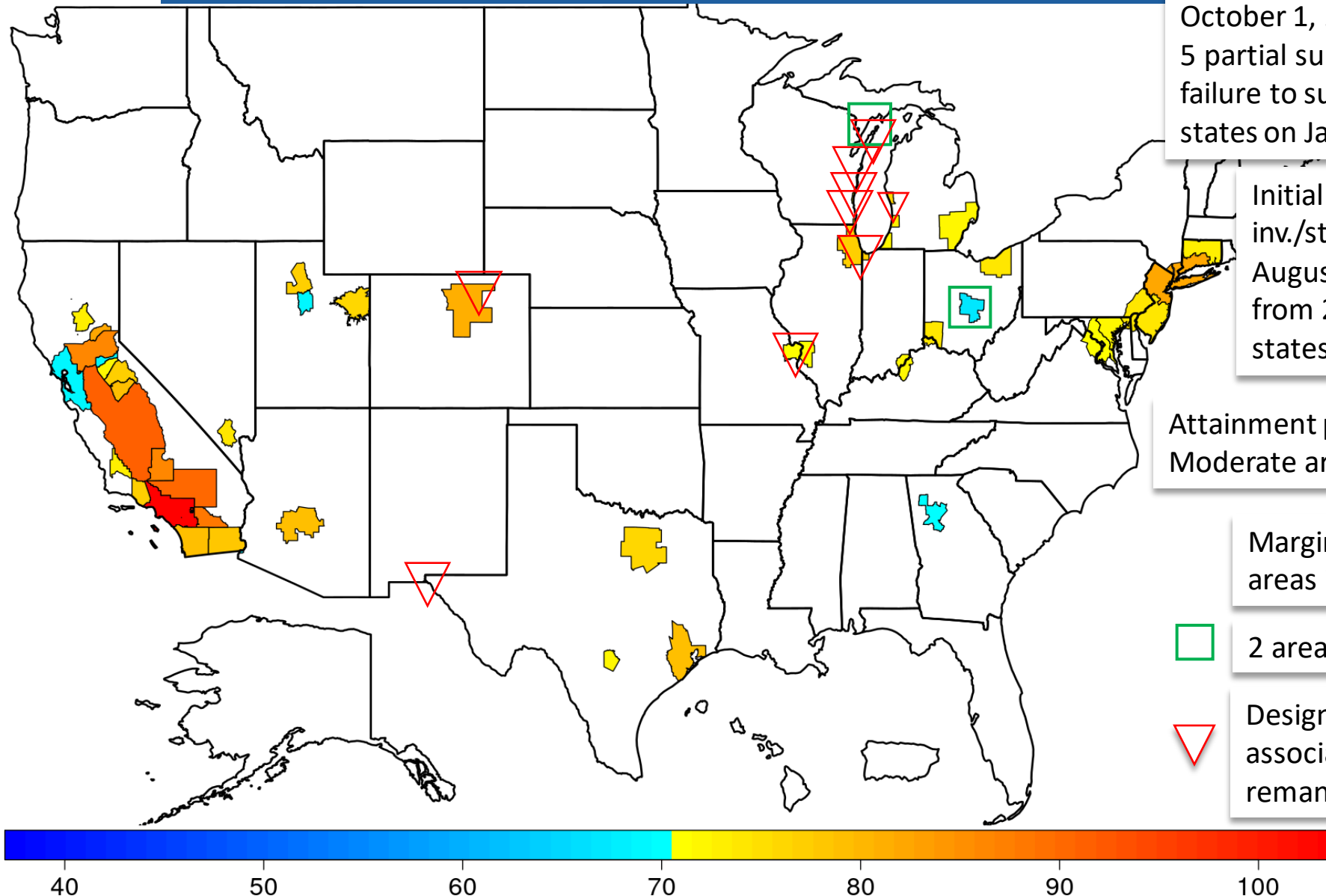
Initial SIP submittals (emiss. inv./statements/RACT/CTGs) were due August 3, 2020. Received SIP revisions from 21 States for 36 areas and 6 states for OTR requirements.

Attainment plans/ demonstrations due for 5 Moderate areas on August 3, 2021.

Marginal area attainment date for 39 areas is Aug/Sept 2021 (2018-20 DV)

□ 2 areas redesignated (Maintenance)

▽ Designations for 16 counties associated with 9 general areas remanded to EPA on 7/10/2020



Preliminary 2018 - 2020 Design Value (ppb) as of January 05, 2021

Challenge to 2015 Ozone NAAQS Implementation Rule

- On January 29, 2021, the D.C. Circuit issued its decision on the *Sierra Club et al.* challenge to EPA's implementation rule for the 2015 ozone NAAQS (petition filed in February 2019).
- The court found in Petitioners' favor on three of four contested issues, and vacated:
 - interprecursor trading for ozone NSR offset requirements
 - relying on already-implemented measures to meet contingency measure requirements
 - implementation-based approach to meet reasonable further progress (RFP) milestone compliance demonstration requirements
- The court upheld flexibility for states to choose between two alternative baseline years for RFP.
- EPA is assessing effects of the decision and working with states to identify next steps.

2008 Ozone NAAQS (75 ppb) Nonattainment Area Status



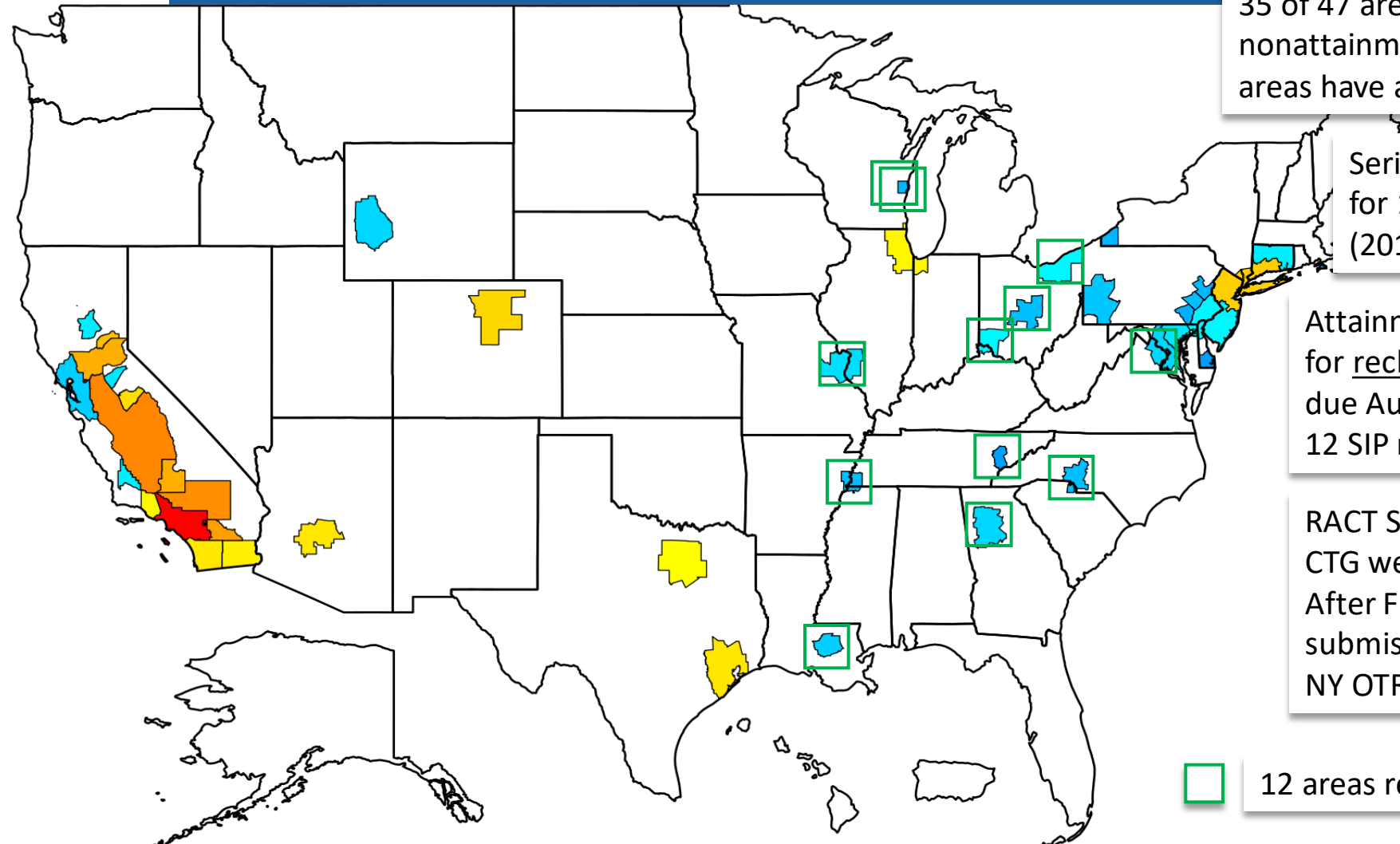
35 of 47 areas remain designated nonattainment, though many areas have attaining air quality

Serious area attainment date for 11 areas is July 20, 2021 (2018-20 DV).

Attainment plans/demonstrations for reclassified Serious areas were due August 3, 2020. Received 4 of 12 SIP revisions due.

RACT SIPs for Oil & Gas Industry CTG were due October 27, 2018. After FFS action, outstanding submissions remain for DFW, HGB, NY OTR & PA OTR.

12 areas redesignated (Maintenance)



Preliminary 2018 - 2020 Design Value (ppb) as of January 05, 2021

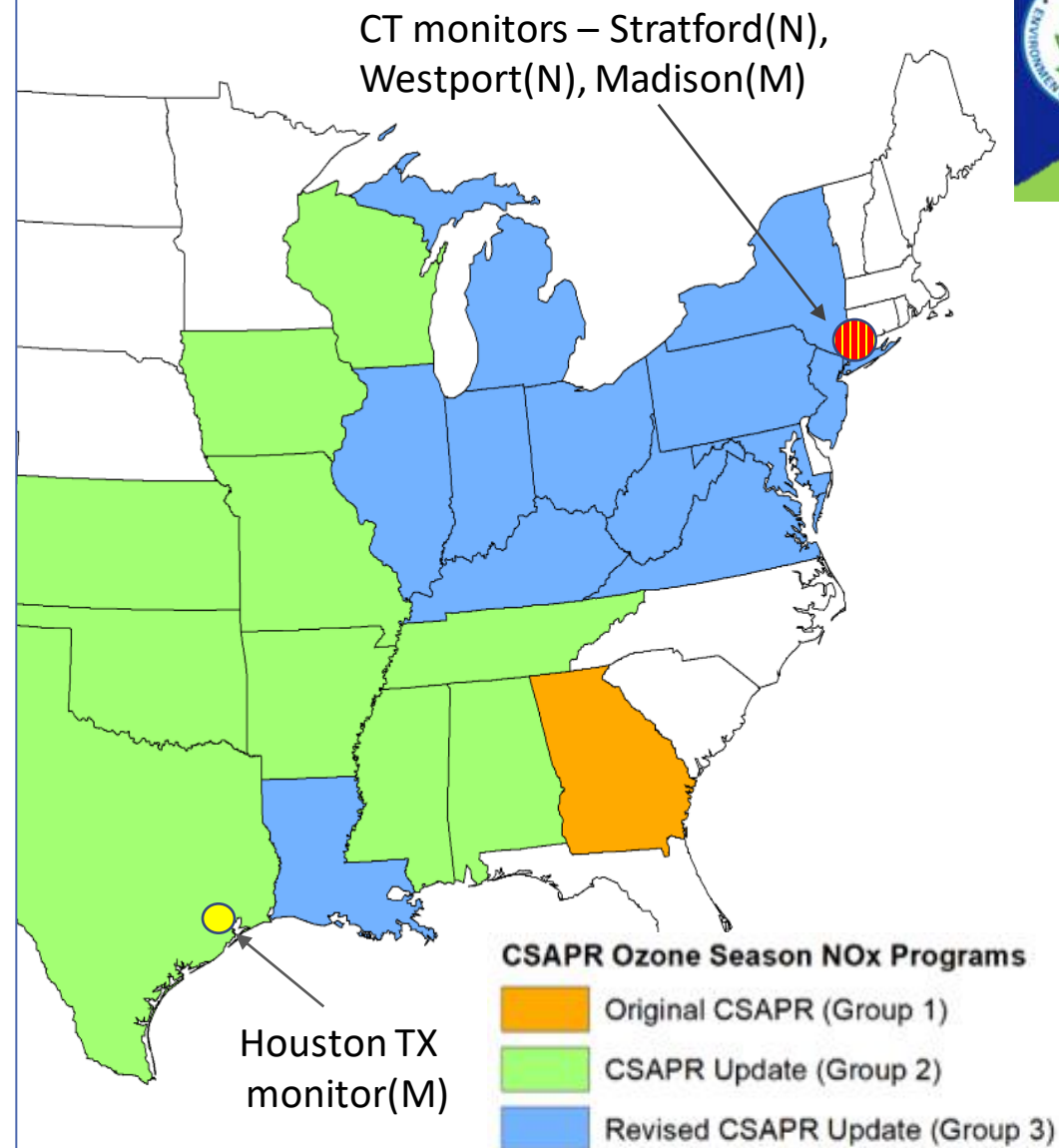


Additional Ozone NAAQS Implementation Updates

- EPA is evaluating the scope of a rulemaking to update the collection of ozone implementation rules affected by the 2018 *South Coast* decision and 2021 *Sierra Club* decision.
- EPA is preparing a final rule to update 40 CFR part 52 to clarify that nine 1997 ozone nonattainment areas attained by their respective attainment dates.
- Houston and Dallas “functional redesignation” actions are under EO 13990 review.

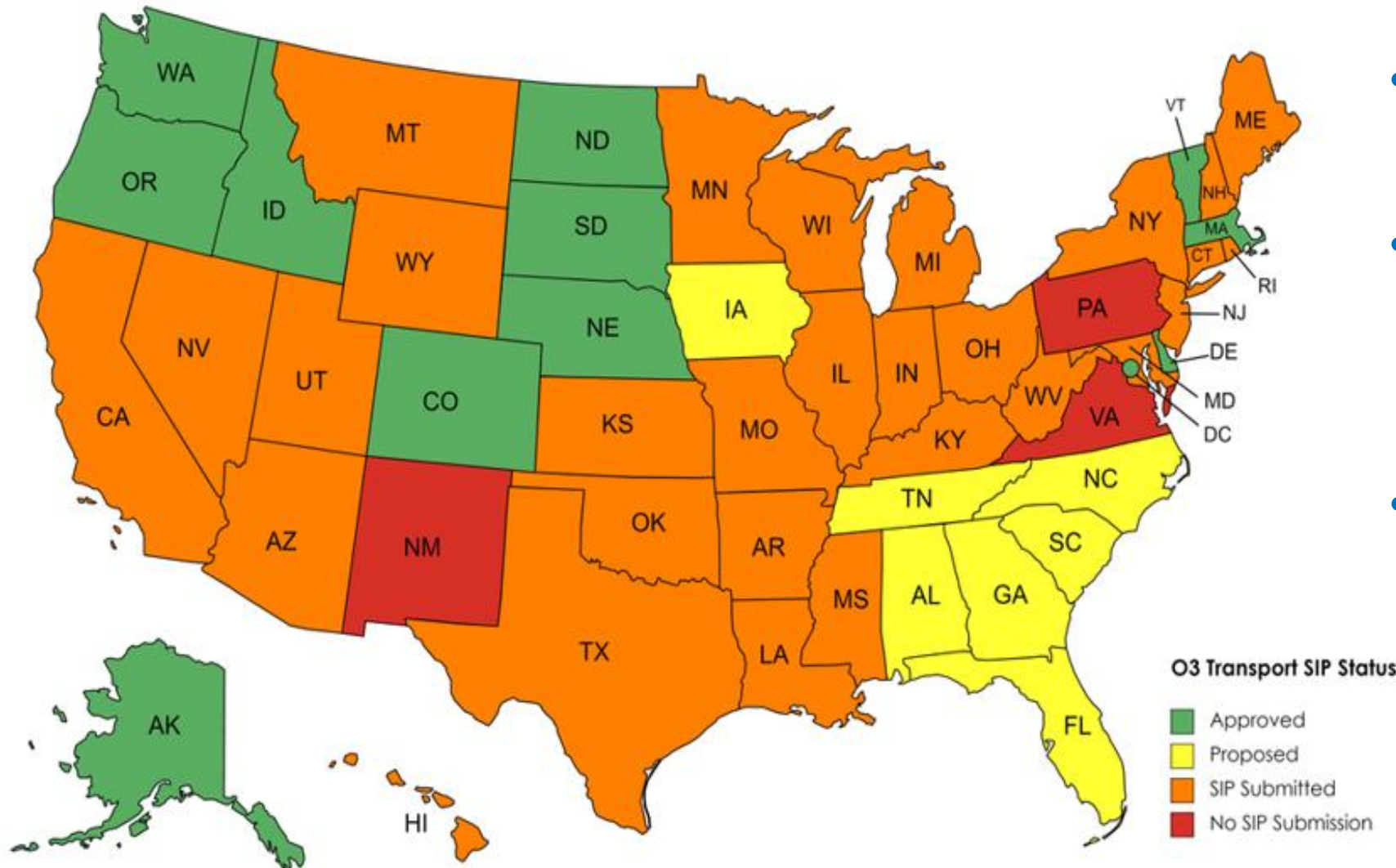
Revised CSAPR Update (signed 3/15/21)

- EPA adjusted the NO_x ozone season emissions budgets for the 12 upwind states projected to be linked to downwind nonattainment (N) or maintenance (M) receptors.**
 - The adjusted NO_x budgets reflect electric generating unit (EGU) emissions reductions associated with optimization of existing selective catalytic reduction (SCR) and selective non-catalytic reduction (SNCR) pollution controls beginning in the 2021 ozone season, and combustion control upgrades beginning in the 2022 ozone season.
- EPA found that limits on non-EGU sources are not required to eliminate significant contribution or interference with maintenance.
- A new “Group 3” trading program reflects the new budgets for ozone season emissions of NO_x from EGUs in the 12 linked states.
- The rule does not mandate specific technologies or emissions-rate limits for any individual source.
- EPA estimates 17,000 tons of NO_x emissions reductions from power plants in 12 states; public health and climate benefits valued, on average, at up to \$2.8 billion each year from 2021 to 2040.
- For more information: www.epa.gov/csapr/revised-cross-state-air-pollution-rule-update



*** NO_x budgets for TN and GA to address their 2008 ozone transport obligations were established by the 2016 CSAPR Update rule and would not change under the proposed Revised CSAPR Update. TN remains in Group 2 and GA remains in Group 1.*

2015 Ozone Transport SIP Status



- Received SIPs for 48 of 56 states/jurisdictions
- Final approval action on 12 SIPs and proposed approval on an additional 7 SIPs.
- Findings of failure to submit interstate transport SIPs effective Jan 22, 2020, for seven states for SIPs due October 1, 2018.

Complaints on 2015 Ozone NAAQS Interstate Transport SIPs



- Complaint filed 1/12/2021, from 5 downwind states on EPA's failure to act on 6 upwind states' 2015 ozone transport SIPs. Action was due 12 months from the "determined complete" date.
- Complaint filed 10/2/2020 from Our Children's Earth Foundation (OCEF) on EPA's mandatory duty to act on several of New York's 2015 ozone NAAQS SIP actions, including the state's transport SIP.
- OCEF also filed an NOI on 10/3/2020 on EPA's mandatory duty to act on 23 states' 2015 ozone NAAQS SIP obligations, including these states' transport SIPs.
- NOI filed 3/12/2021 from EarthJustice et al. on EPA's mandatory duty to act on 32 states' 2015 ozone transport SIPs.

Progress on PM NAAQS Attainment

As of 3/30/2021

	1997 PM _{2.5} (2005 Designations)	2006 PM _{2.5} (2009 Designations)	2012 PM _{2.5} (2015 Designations)	1987 PM ₁₀ (1990-1998, 2010, 2012 Designations)
Initial Nonattainment Areas	39	32	9	89
Areas Redesignated to Attainment	35	18	3	64
Current Nonattainment Areas	3 CDDs 1 Serious	11 CDDs 3 Serious	1 CDD 4 Moderate 1 Serious	25
Attainment Deadlines	Serious: 2021	Various	Moderate: 2021 Serious: 2025	Various

PM_{2.5} Nonattainment Areas (3/31/2021)

1997 Standard



Nonattainment areas are indicated by color. When only a portion of a county is shown in color, it indicates that only that part of the county is within a nonattainment area boundary.

03/31/2021

Los Angeles-South Coast Air Basin, CA	CA
San Joaquin Valley, CA	CA
Libby, MT	MT
Liberty-Clairton, PA	PA

2006 Standard



Nonattainment areas are indicated by color. When only a portion of a county is shown in color, it indicates that only that part of the county is within a nonattainment area boundary.

03/31/2021

Fairbanks, AK	AK	Logan, UT-ID	ID
Nogales, AZ	AZ	Klamath Falls, OR	OR
West Central Pinal, AZ	AZ	Oakridge, OR	OR
Imperial Co, CA	CA	Liberty-Clairton, PA	PA
Los Angeles-South Coast Air Basin, CA	CA	Logan, UT-ID	UT
Sacramento, CA	CA	Provo, UT	UT
San Francisco Bay Area, CA	CA	Salt Lake City, UT	UT
San Joaquin Valley, CA	CA		

2012 Standard



Nonattainment areas are indicated by color. When only a portion of a county is shown in color, it indicates that only that part of the county is within a nonattainment area boundary.

03/31/2021

Imperial County, CA	CA
Los Angeles-South Coast Air Basin, CA	CA
Plumas County, CA	CA
San Joaquin Valley, CA	CA
West Silver Valley, ID	ID
Allegheny County, PA	PA

PM NAAQS Implementation: On-going Actions



- 2006 PM_{2.5}: Proposed redesignations for 3 nonattainment areas.
 - Logan, UT-ID; Provo, UT; and Salt Lake City, UT
 - Comments under review
- 2006 PM_{2.5}: Two Serious areas that failed to attain within 10 years (Fairbanks, AK and Los Angeles-South Coast, CA) submitted SIP revisions under CAA section 189(d) by the December 31, 2020 deadline.
 - Plans are under review.
- 2006 PM_{2.5}: In 2020, EPA granted a five-year attainment date extension for the San Joaquin Valley, CA, Serious area, to 2024.
 - This action has been challenged; legal briefs are due starting in April 2021.
- PM₁₀: EPA determined West Central Pinal, AZ, failed to attain by the Moderate area attainment date and reclassified area to Serious.

Lead (Pb) NAAQS Implementation Update

- Of the 22 areas designated nonattainment for the 2008 Pb NAAQS, 12 have been redesignated to attainment.
- Six areas violated the 2008 Pb NAAQS based on 2017-2019 design values
 - Troy, AL; Hayden, AZ; Lake Co, IN; Stark, OH; Arecibo, PR; and Kaufman, TX
 - EPA regional offices and HQ are communicating about the status and next steps for each of these areas.
 - We will also consider certified 2018-2020 Pb monitoring data in determining path forward.
- EPA's focus:
 - Remaining redesignations.
 - Early detection of emerging compliance issues in attainment/maintenance areas.
 - Assessing opportunities for reducing Pb impacts as a criteria pollutant and HAP, especially on vulnerable populations.



Exceptional Events Update

- EPA has concurred on 109 state demonstrations that were submitted since EPA revised the Exceptional Events Rule in September 2016.
- Exceptional Events Submission and Tracking System 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>



International Emissions Transport

- Final “Guidance on the Preparation of Clean Air Act Section 179B Demonstrations for Nonattainment Areas Affected by International Transport of Emissions”
 - Signed on December 18, 2020, and available at <https://www.epa.gov/ground-level-ozone-pollution/international-transport-air-pollution>
 - Associated *Federal Register* Notice of Availability published on January 7, 2021 (86 FR 1105).
- Several states have expressed interest in preparing and submitting 179B demonstrations related to upcoming determinations of attainment by the attainment date for the 2008 and 2015 ozone NAAQS.
 - EPA decisions on section 179B demonstrations are not themselves final agency actions; documentation related to demonstrations are included in relevant regulatory actions that undergo notice and public comment.
 - We request that states provide demonstrations by May 31, 2021 to allow EPA adequate time to evaluate prior to the summer 2021 attainment dates.

Provisions Concerning Start-Up, Shutdown and Malfunction (SSM) Events in SIPs



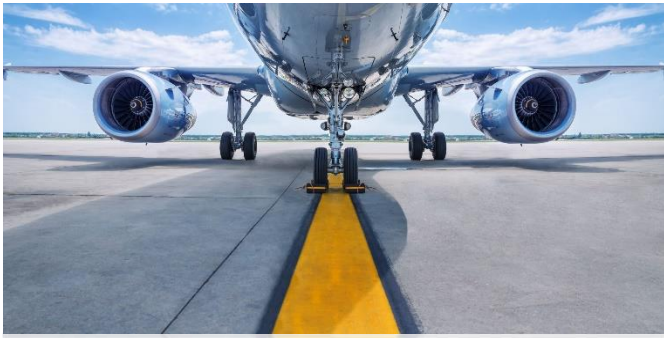
- In 2015 EPA finalized the SSM SIP Action which included:
 - a response partially granting and partially denying Sierra Club's petition for a SIP call;
 - updating, restating, and consolidating SSM policy; and,
 - a SIP Call applying that policy and directing several states to revise SSM-related provisions for exemptions and affirmative defenses in their SIPs.
- Three SSM policy-related SIP actions were taken in 2020, withdrawing SIP calls for TX, NC, and IA
- On October 9, 2020, the EPA Administrator signed a guidance memorandum, *"Inclusion of provisions governing periods of SSM in SIPs,"* that outlines whether and when it may be permissible for a state to include certain types of provisions governing periods of SSM in SIPs. This guidance memo is currently being reviewed under E.O. 13990 "Protecting Public Health and the Environment and Restoring Science to Tackle the Climate Crisis."
- Litigation in the D.C. Circuit challenging the 2015 action was put in abeyance in April 2017. Earlier this year, the three additional state-specific cases were all also put in abeyance.

ADVANCE

www.epa.gov/advance



- A collaborative program for states, tribes and local governments to achieve ongoing emission reductions in areas designated as attainment or maintenance for ozone and/ or PM_{2.5} NAAQS.
 - 45 current partners with more than 50 million in population. Diverse group of partners includes full states, tribal nations, cities, counties, councils of government, regional planning commissions.
 - Benefits: Forum for stakeholder collaboration; monthly all-partner video meetings; monthly newsletter on grants and training opportunities; access to technical assistance with multiple EPA offices; index to programs/initiatives in member plans.
 - Advance Partners provide annual plan updates to EPA describing progress in relevant programs in their communities (e.g., mobile sources, transportation, energy efficiency, renewable energy, stationary sources, woodsmoke, community monitoring, education and outreach) and plans for the next year.
 - Plans submitted by program partners are available on the EPA website.
- There are a significant number of other areas with air quality values that are approaching the level of the ozone and PM_{2.5} NAAQS and may be good candidates for Advance.
 - OAQPS and the Regional Offices can schedule a presentation for your organization.
 - Contact Rich Damberg (damberg.rich@epa.gov) and Mia South (south.mia@epa.gov) for more info.



General Conformity



- CAA section 176(c), requires Federal agencies to conform to a state's SIP when proposing actions within the state.
- Two categories of activities are subject to the conformity requirement – transportation plans and projects (“transportation conformity”) and everything else (“general conformity”).
- EPA last promulgated updates to the General Conformity regulations (40 CFR part 93 subpart B) in 2010.
- We are developing proposed technical amendments package to correct minor errors, clean up outdated references, and clarify certain provisions.
 - Proposal anticipated Fall 2021

New Source Review Program Actions: 2017 – Present

- Guidance: Enforceability and Use of Actual-to-Projected-Actual Applicability Test (12/7/17)
- Guidance and Rule: Project Emissions Accounting (Guidance - 83 FR 13745; 3/13/18); (Rule - 85 FR 74890; 11/24/20)
- Guidance: Significant Impact Levels (SILs) for Ozone PM_{2.5} (4/17/18)
- Guidance: Source Aggregation - Common Control and Adjacent Criteria
 - Common Control: Meadowbrook 4/30/2018 letter to Pennsylvania DEP; Ameresco 10/16/2018 letter to Wisconsin DNR
 - Interpreting Adjacent for NSR and Title V Source Determinations in All Industries other than Oil and Gas (11/26/19 memo)
- Rule: Project Aggregation Reconsideration (83 FR 57324; 11/15/18)
- Rule: Ethanol Major Source Rule Reconsideration
 - Letter to NRDC issued 10/21/19 partially denying/granting 2009 petition
 - Initiated potential rulemaking to address partial grant for nonattainment areas pending

NSR Program Actions: 2017 – Present (Cont.)

- Reasonable Possibility (RP) Rule Reconsideration (11/5/19 letter to NJ)
 - On 3/5/21 the D.C. Circuit upheld the RP rule, agreeing on the merits that EPA engaged in a reasoned decision-making and filled the gap identified in prior remand [*State of New Jersey v. EPA*, No. 08-1065 (D.C. Cir. 2021)]
- Guidance: Revised Policy on Exclusions from “Ambient Air” (12/2/19)
- Rule: Tribal NSR Oil & Gas FIP Streamlining Amendment (85 FR 15279; 3/19/20)
- Guidance: Plantwide Applicability Limitation (PAL) Provisions (8/4/20)
- Final Rule: Error Corrections to NSR Regulations (signed 1/4/21)
 - Per “Regulatory Freeze” memo, rule requires re-signature by new Administrator
 - On 1/29/21 the D.C. Circuit vacated the interprecursor trading (IPT) provisions for ozone NSR offset requirements [*Sierra Club v. EPA*, No. 15-1465 (D.C. Cir. 2021)]
 - EPA intends to remove the ozone IPT provisions from the regulations as part of this final Rule under the “good cause” exemption of the APA
- Outer Continental Shelf Permitting activities

Process Improvements: Electronic Systems

- Central Data Exchange (CDX) for receipt of Title V petitions
 - Completed - September 2020
- Electronic Permitting System (EPS)
 - Completed March 2020
 - 18 states and 58 local permitting authorities are participating from Regions 1, 4, 9, and 10
- Replacing and modernizing RACT/BACT/LAER Clearinghouse
 - Target for completion – FY-2022

CEDRI and Title V

- **Compliance and Emissions Data Reporting Interface (CEDRI)** now has the capability to receive title V and part 49 documents that require certification by a responsible official.
- The form allows for the user to submit four types of documents under Part 70 and 71: 502(b)(10) change notification, a semi-annual monitoring report, a deviation notification, and a title V application.
 - Planning to add Title V Fee Forms
- In addition, users can submit the three types of documents under part 49: Annual emission report, deviation report, and other reports.
- Job aides for CEDRI can be found at <https://www.epa.gov/electronic-reporting-air-emissions/cedri#guide>
- 367 reports have been submitted under Part 49, Part 70, and Part 71.

Title V Petitions

- Title V petitions continue to be a substantial workload
 - Typically, EPA receives and responds to 10-20 per year.
- From FY 2017-2020, EPA received 56 petitions, resolved 79 petitions.
- Petitions Rule finalized February 2020 (85 FR 6431) includes:
 - requirements for permitting authorities (response to comments)
 - requirements for petitioners (petition content).
- Issue trends



Questions and Comments



NAAQS Implementation Milestones (March 2021)



Pollutant (Standard)	Final NAAQS Signature	Nonattainment Designations Effective	Infrastructure SIP Due	Attainment Plans Due	Attainment Date
Ozone (2015)	Oct 2015	Aug 3, 2018 (Sep 24, 2018 for San Antonio, TX)	Oct 2018	Aug 2021-2022	Aug 2021-2038
Ozone (2008)	Mar 2008	July 2012	Mar 2011	July 2015-2016 Jan 2017*, Aug 2020*	July 2015, 2018, 2021, 2027, 2032
SO ₂ (2010) (primary)	June 2010	¹ Oct 2013, ² Sept 2016, ³ Apr 2018, ⁴Apr 2021	June 2013	¹ Apr 2015, ² Mar 2018, ³ Oct 2019, ⁴ Oct 2022	¹ Oct 2018, ²Sept 2021 , ³ Apr 2023, ⁴ Apr 2026
PM _{2.5} (2012)	Dec 2012	Apr 2015	Dec 2015	Oct 2016 (Moderate)	Dec 2021 (Moderate) Dec 2025 (Serious)
PM _{2.5} (2006)	Oct 2006	Dec 2009	Oct 2009	Dec 2014	Dec 2015 (Moderate) Dec 2019 (Serious)
Pb (2008)	Oct 2008	Dec 2010-2011	Oct 2011	June 2012-2013	Dec 2015-2016
NO ₂ (2010) (primary)	Jan 2010	Feb 2012	Jan 2013	N/A	N/A

* January 2017 for areas reclassified from Marginal to Moderate. August 2020 for areas reclassified from Moderate to Serious.

NAAQS Reviews Status

(February 2021)



	Ozone	Lead	Primary NO ₂	Primary SO ₂	Secondary (Ecological) NO ₂ , SO ₂ , PM ¹	PM ²	CO
Last Review Completed (final rule signed)	Dec 2020	Sept 2016	April 2018	Feb 2019	Mar 2012	Dec 2020	Aug 2011
Recent or Upcoming Major Milestone(s)	<u>TBD</u> ⁴	<u>July 2020</u> Call for Information	<u>TBD</u> ⁴	<u>TBD</u> ⁴	<u>2021</u> Draft PA with REA Appendices ³	<u>TBD</u> ⁴	<u>TBD</u> ⁴

¹ Combined secondary (ecological effects only) review of NO₂, SO₂, and PM

² Combined primary and secondary (non-ecological effects) review of PM

³ REA – Risk and Exposure Assessment; PA – Policy Assessment

⁴ TBD = To be determined

SIP Process Improvement Resources

- The SIP Lean Toolkit provides templates, checklists, and other helpful information intended to support early engagement between EPA and air agencies during state implementation plan development.
 - <https://www.epa.gov/air-quality-implementation-plans/state-implementation-plan-sip-lean-toolkit-collaboration-between>
- SPeCS for SIPs – Submit SIPs Online
 - <https://www.epa.gov/air-quality-implementation-plans/submit-sips-online>
- General Information and Updates on SIPs
 - [epa.gov/sips](https://www.epa.gov/sips)