

NAAQS and Regional Haze Implementation Updates

AAPCA Virtual Fall Meeting Series September 8, 2020

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Overview

- Review EPA Strategic Plan Goals
- Implementation Program Updates
 - Regional Haze
 - Sulfur Dioxide (SO2)
 - Ozone & Ozone Transport
 - Particulate Matter (PM)
 - Lead (Pb)
 - Exceptional Events
 - International Emissions Transport
- Advance Program

EPA's Mission: Protect Human Health and the Environment

FY 2018 – 2022 U.S. EPA Strategic Plan Goal 1: A Cleaner, Healthier Environment. Deliver a cleaner, safer and healthier environment for all Americans and future generations by carrying out the agency's core mission.

Goal 2: More Effective Partnerships. Provide certainty to states, localities, tribal nations and the regulated community in carrying out shared responsibilities and communicating results to all Americans.

Goal 3: Greater Certainty, Compliance and Effectiveness. Increase certainty, compliance and effectiveness by applying the rule of law to achieve more efficient and effective agency operations, service delivery and regulatory relief.



Objective 1.1 Improve Air Quality

Work with states and tribes to accurately measure air quality and ensure that more Americans are living and working in areas that meet high air quality standards.

Objective 3.2

Create Consistency and Certainty

Outline exactly what is expected of the regulated community to ensure good stewardship and positive environmental outcomes.

Objective 3.4

Streamline and Modernize

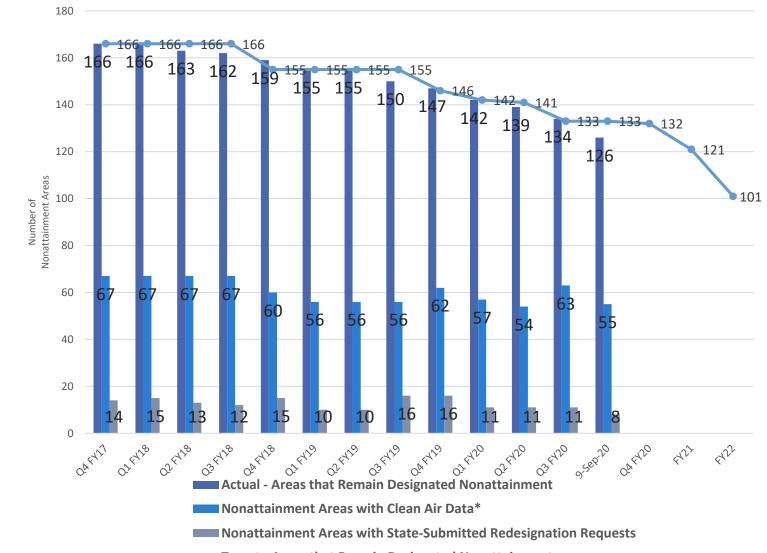
Issue permits more quickly and modernize our permitting and reporting systems.

- By September 30, 2022, reduce the number of areas to 101. LTPG-1.1.1.
- By September 30, 2022, meet 100% of legal deadlines imposed on EPA. LTPG-3.2.1.
- Prioritize meeting statutory deadlines to ensure that expectations for the regulated community and the public are clear and comprehensive and that Agency actions are defensible and consistent with its authorities.
- Ensure consistent implementation of policies across all regions, and work towards more cooperative decision making between EPA's regions and headquarters.
- Review regulatory guidance documents to identify opportunities to clarify and align EPA approaches to improve consistency and clarity.
- Systematically collect and report permitting data.
- Modernize permitting and reporting processes through E-Enterprise for the Environment, a shared governance model with EPA, states, and tribes.
- Consider where policy changes can improve permitting efficiency without sacrificing environmental results.



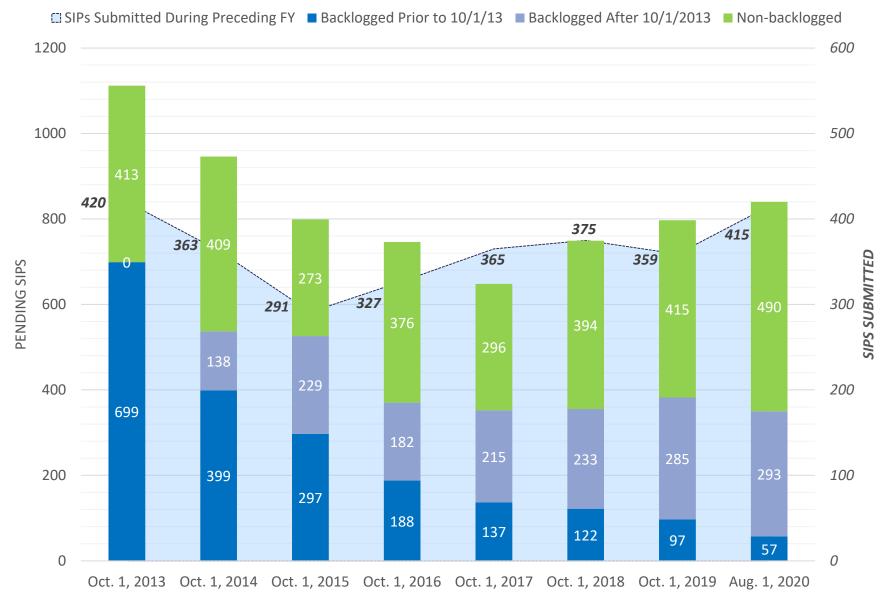
Reducing Number of Nonattainment Areas

Agency Priority 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.





Improving State Implementation Plan Reviews: SIPs Pending EPA Review 2013 to August 2020





Benefits of SPeCS for SIPs

Project Results



Saves money and staff resources



Saves time



Enhances reporting capabilities



Increases consistency



Increases transparency



Increases efficiency



Combines 4 legacy systems into one

50 States use SPeCS

8 Local agencies use SPeCS

810+ SIP submittals

398 Active users

\$200k Estimated savings/year



Regional Haze Program: Ongoing Work

- Regional Haze Program focus is on planning associated with the second planning period SIPs due by July 31, 2021.
 - Continue to engage with Regional Offices to talk through issues associated with your Regional Haze analyses and plan development.
 - Continue to engage with Federal Land Managers.
- EPA has already received final SIPs from three states.
- Working to resolve remaining first planning period actions.



SO₂ NAAQS Implementation Updates

- Remaining nonattainment areas:
 - 29 of 41 for 2010 SO₂ NAAQS
 - 8 of 54 for 1971 SO₂ NAAQS
- 2010 NAAQS Round 1 nonattainment areas:
 - EPA has a deadline of October 30, 2020 to take final action on 12 submitted attainment plans identified in a consent decree. Final action has been completed on plans addressing 5 of the 12 areas.
 - The Regional Offices are working with HQ and states on addressing approvability issues for all remaining attainment plans and acting quickly on redesignation requests.
- 2010 NAAQS Round 2 areas:
 - EPA issued Findings of Failure to Submit (FFS) attainment plans for five nonattainment areas:
 - 3 areas in TX effective September 9, 2020 (plans due July 13, 2018)
 - 2 areas in MD and MI effective October 21, 2019 (plans due March 12, 2018); MD now submitted and EPA proposed CDD for MI
 - Proposal to redesignate unclassifiable areas to attainment in Missouri, Ohio, Nebraska, and Texas, signed September 2, 2020.



SO2 NAAQS Implementation: Recent Litigation

- On August 6, 2020, the Center for Biological Diversity (CBD), the Sierra Club and Center for Environmental Health filed a mandatory duty complaint in the U.S. District Court for the Northern District of California, alleging that EPA failed to issue an FFS for the following areas:
 - (1) Huntington, IN, (2) Evangeline Parish, LA, (3) Guayama-Salinas, PR, (4) San Juan, PR, and (5) Piti-Cabras, GU.
- In addition, on August 11, 2020, the same groups filed a Notice of Intent to Sue (NOI) for EPA's alleged...
 - ...failure to take timely action on an attainment plan for one Round 2 SO2 nonattainment area (Alton Township, IL)
 - ...failure to make timely determinations of attainment by the attainment date for nine Round 1 areas by their statutory attainment date of October 4, 2018.
 - The nine areas are: (1) Hayden, AZ, (2) Miami, AZ, (3) Southwest Indiana, IN, (4) Muscatine, IA, (5) St. Bernard Parish, LA, (6) Detroit, MI, (7) Jackson County, MO, (8) Sullivan County, TN, and (9) Rhinelander, WI.



Timeline for 2010 Primary SO₂ NAAQS Designations Process – Round 4 Areas Associated with December 31, 2020, Court Ordered Deadline

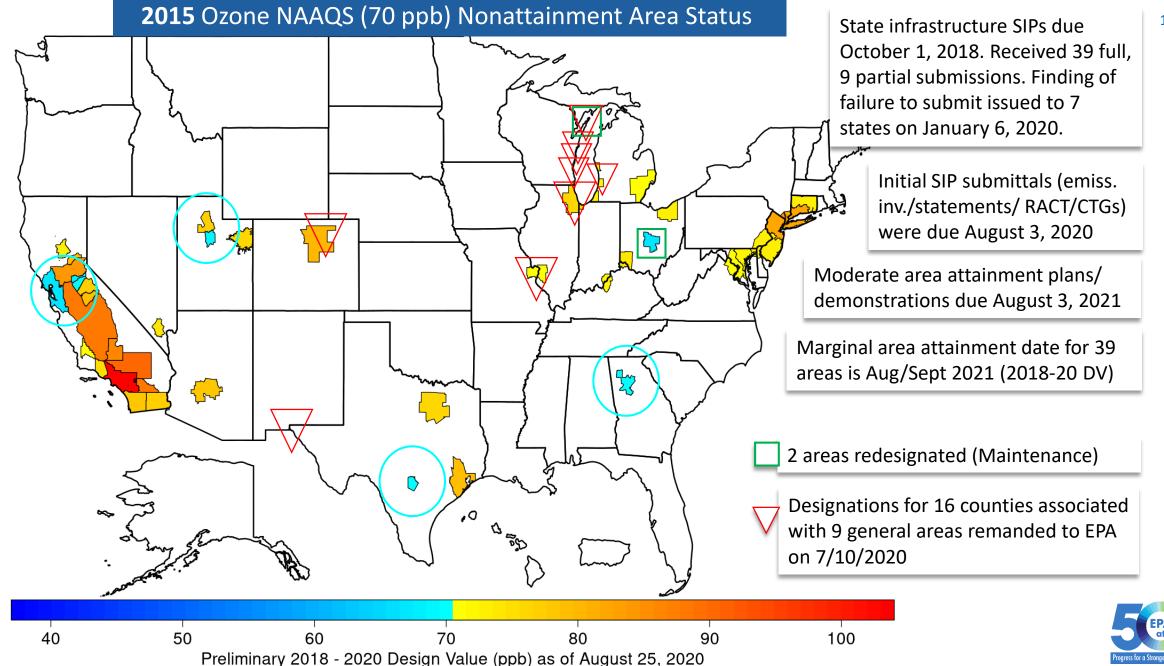
Round 4 SO₂ NAAQS Area Designations

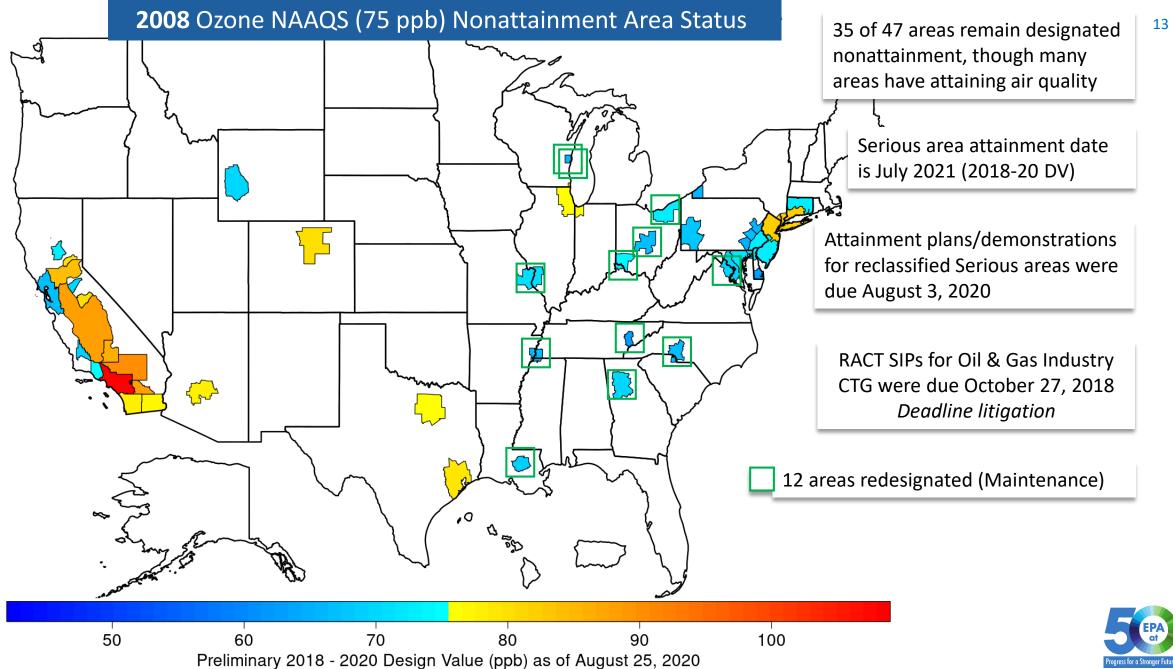
- EPA must designate all remaining portions of the U.S. by December 31, 2020.
- Round 4 Process Guidance Memo issued September 5, 2019.
- EPA notified states of its intended Round 4 designations on August 13, 2020.
- Two upcoming milestones

Milestone	Date
States and tribes certify 2019 SO ₂ monitoring data	No later than May 1, 2020
States and tribes may submit updated recommendations and supporting information for area designations to EPA*	No later than May 1, 2020
States submit exceptional events demonstrations for event-influenced SO ₂ monitoring data from 2017-2019	No later than May 1, 2020
EPA notifies states and tribes concerning any intended modifications to their recommendations (120-day letters)	On or about August 13, 2020
EPA publishes public notice of state and tribal recommendations and EPA's intended modifications, initiating a 30-day public comment period	August 21, 2020 (85 FR 51694)
End of 30-day public comment period	September 21, 2020
In response to EPA's intended designations, states and tribes submit additional information, if desired, to demonstrate why EPA's proposed modification in the 120-day letter to the state's recommended designation or boundary is inappropriate	No later than October 16, 2020
EPA signs notice promulgating final SO ₂ area designations for Round 4	On or about December 17, 2020 (No later than December 31, 2020)

^{*} For any remaining undesignated area (i.e., those areas that installed and began operating EPA-approved SO_2 monitoring networks pursuant to the DRR and that have not been previously designated).







1997 Ozone NAAQS Implementation Update

- The 2018 South Coast II ruling reversed several antibacksliding approaches for the revoked 1997 ozone NAAQS, most significantly affecting procedures for determinations of attainment by the attainment date and redesignation requirements.
- Earlier this year, Region 6 finalized replacements for previous "redesignation substitutes"; both actions have been challenged:
 - Houston-Galveston-Brazoria, TX area (85 FR 8411; 2/14/20)
 - Dallas-Fort Worth, TX area (85 FR 19096; 4/06/20)
- We made updates to 40 CFR part 52 to clarify that nine 1997 ozone nonattainment areas attained by their respective attainment dates
 - Direct final rule signed August 31, 2020, FR publication forthcoming
- Began work on a planned "Cleanup" rule proposal addressing antibacksliding provisions impacted by South Coast II ruling
 - Would update the 2008 Ozone NAAQS SIP Requirements Rule



2008 Ozone NAAQS Interstate Transport Update

- <u>CSAPR Update</u>. September 13, 2019, D.C. Circuit decision on *Wisconsin v. EPA* ruled for EPA on a number of issues but held that EPA was required to fully address upwind states' Good Neighbor obligations by the downwind states' statutory attainment dates. The court remanded the CSAPR Update without vacatur. The Southern District of New York issued a July 28, 2020 decision in *NJ v. Wheeler*, ruling that EPA must issue a final federal plan rule by March 15, 2021.
- <u>CSAPR Closeout</u>. October 1, 2019, D.C. Circuit decision on *New York v. EPA* vacated and remanded the CSAPR Closeout because it did not address states Good Neighbor obligations with respect to the next applicable attainment date in 2021.



2015 Ozone NAAQS Interstate Transport SIPs

- EPA is actively reviewing submitted 2015 ozone NAAQS transport SIPs
 - Received 47 of 56 states/jurisdictions
 - Finalized approval action on 10 SIP submissions
 - Proposed approval on an additional 9 submissions
- Findings of Failure to Submit (FFS) outstanding interstate transport SIPs that were due October 1, 2018
 - On November 22, 2019, EPA issued an FFS that 7 states failed to submit interstate transport SIPs for the 2015 ozone NAAQS
 - 3 states have since submitted



Transport-related Petitions and Litigation

- Maryland & Delaware section 126(b) petitions. On May 19, 2020, the D.C. Circuit Court of Appeals remanded EPA's denial of petitions submitted by Maryland and Delaware in 2016 for four EGUs with SNCR. The ruling also held that the relevant analytic year is the next future attainment date, which impacts 2008 and 2015 ozone transport SIPs.
- New York section 126(b) petition. On July 14, 2020, the D.C. Circuit vacated EPA's 2019 denial of New York's petition regarding approximately 350 sources for the 2008 and 2015 ozone standards.
- Maine section 176A petition. EPA is reviewing petition from Maine requesting a partial withdrawal from the Northeast Ozone Transport Region submitted on February 24, 2020.
- OTC section 184(c) petition. EPA is reviewing petition from the Ozone Transport Commission submitted on June 8, 2020, recommending additional NOx control on Pennsylvania coal-fired EGUs.



Progress on PM NAAQS Attainment

As of 8/25/2020

	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	63
Current Nonattainment Areas	4	14	6	26
Attainment Deadlines	Serious 11/2021	Serious 12/2019	Moderate 12/2021	Various



PM_{2.5} NAAQS Implementation: 2020 Actions

NAAQS	DATE	STATE	AREA	ACTION
2006 PM _{2.5}	6/8/2020 (Corr:7/7/2020)	UT	Provo	Proposal- Attained by the Attainment Date
2006 PM _{2.5}	6/8/2020 (Corr:7/7/2020)	UT	Salt Lake City	Proposal- Attained by the Attainment Date
2006 PM _{2.5}	7/10/2020	CA	LA-South Coast	Proposal- Failure to Attain
2006 PM _{2.5}	7/22/2020	CA	San Joaquin	Final- Approved Extension Request and Requirements
2006 PM _{2.5}	9/2/2020	AK	Fairbanks	Final - Failure to Attain
2012 PM _{2.5}	7/2/2020	CA	LA-South Coast	Proposal- Plan approval and reclassification to Serious



PM₁₀ NAAQS Implementation: 2020 Actions

NAAQS	DATE	STATE	AREA	ACTION
PM ₁₀	2/25/2020	UT	Ogden	Final- Redesignation
PM ₁₀	2/25/2020	UT	Salt Lake	Final- Redesignation
PM ₁₀	2/25/2020	UT	Utah County	Final- Redesignation
PM ₁₀	4/2/2020	CA	Imperial	Proposal- Redesignation
PM ₁₀	6/24/2020	AZ	West Central Pinal	Final- Failure to attain and reclassification to Serious
PM ₁₀	6/26/2020	MT	Columbia Falls	Final- Redesignation
PM ₁₀	6/26/2020	MT	Kalispell	Final- Redesignation
PM ₁₀	6/26/2020	MT	Libby	Final- Redesignation
PM ₁₀	8/4/2020	AZ	Ajo	Final- Redesignation



Lead (Pb) NAAQS Implementation Update

- Of the 22 areas designated nonattainment for the 2008 Pb NAAQS, 12 have been redesignated to attainment.
- Six nonattainment areas have 2017-2019 design values out of compliance with the 2008 Pb NAAQS.
 - Troy, AL; Hayden, AZ; Lake Co, IN; Stark, OH; Arecibo, PR; and Kaufman, TX
- EPA's focus:
 - Remaining redesignations.
 - Early detection of emerging compliance issues in attainment/maintenance areas



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

- "Guidance on the Preparation of Clean Air Act Section 179B
 Demonstrations for Nonattainment Areas Affected by International
 Transport of Emissions" is at OMB for up to 90-day interagency review
 period.
- EPA approved the "Imperial County Clean Air Act Section 179B(b) Retrospective Analysis for the 75 ppb 8-hour Ozone Standard" demonstrating that the nonattainment area would have attained the 2008 ozone NAAQS by the Moderate attainment date of July 20, 2018, but for emissions emanating from Mexico, and therefore is not subject to reclassification to Serious upon failure to attain. 84 FR 11817 (Feb. 27, 2020).
 - Challenge filed by the Center for Biological Diversity and the Center for Environmental Health with 9th Circuit Court of Appeals on April 27, 2020.



ADVANCE

www.epa.gov/advance

- A collaborative program for states, tribes and local governments to achieve ongoing emission reductions in areas designated as attainment/maintenance for ozone or PM_{2.5}
 - 40 current partners with 360+ counties and 45 million population
 - Forum for stakeholder collaboration, monthly info on grants and training opportunities, access to EPA technical assistance
 - Provide annual plan updates to EPA describing relevant programs (e.g., mobile sources, transportation, energy efficiency, renewable energy, stationary, woodsmoke, education)
 - Plans for current partners are 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
 - We would be happy to schedule a presentation with your organization
 - Contact Rich Damberg (<u>damberg.rich@epa.gov</u>) for more info





NAAQS Reviews: Status Update

(September 2020)

	Ozone	Lead	Primary NO ₂	Primary SO ₂	Secondary (Ecological) NO ₂ , SO ₂ , PM ¹	PM ²	со
Last Review Completed (final rule signed)	Oct. 2015	Sept 2016	April 2018	Feb 2019	Mar 2012	Dec 2012	Aug 2011
Recent or Upcoming Major Milestone(s)	Sept 2019 Draft ISA ³ Oct 2019 Draft PA Aug 2020 Proposal Dec 2020 Final	July 2020 Call for Information	<u>TBD</u>	<u>TBD</u>	Sept 2020 Final ISA Early 2021 Draft PA with REA Appendices	Dec 2019 Final ISA Jan 2020 Final PA April 30, 2020 Proposal Dec 2020 Final	<u>TBD</u>

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



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

³ IRP – Integrated Review Plan; ISA – Integrated Science Assessment; REA – Risk and Exposure Assessment; PA – Policy Assessment

⁴ TBD = To be determined

NAAQS Implementation Milestones (September 2020)

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

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

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-plans/
- 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

