

# EPA SIP Guidance

SIP 101 Training  
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# EPA Guidance on SIPs

- EPA Office of Air & Radiation SIP Toolkits by pollutant
  - Timeframes
  - Attainment demonstrations/modeling
  - Reasonable Further progress
  - Applicable control measures
  - Control Techniques Guidance (CTG) and Alternative Control Techniques (ACT)
  - Rules and policies



# Important EPA SIP Guidance

## Infrastructure SIP Guidance

- Release: September 2013
- Purpose: Help S/L/Ts develop and submit I-SIPs
- Provides recommendations for air agencies to develop I-SIPs for O<sub>3</sub>, NO<sub>2</sub>, SO<sub>2</sub>, and PM<sub>2.5</sub> NAAQS
- Does not address interstate pollution transport affecting maintenance or nonattainment areas
- I-SIPs are required under CAA sections 110(a)(1) and 110(a)(2)

<https://www.epa.gov/ozone-pollution/infrastructure-state-implementation-plan-sip-requirements-and-guidance>

# Important EPA SIP Guidance

## Emission Inventory SIP Guidance

- Release: May 2017
- Purpose: Guide S/L/Ts in preparing SIPs for the 8-hour ozone NAAQS, 24-hour and annual PM2.5 NAAQS and regional haze plan revisions
- Emissions inventories are a primary component of NAA SIP revisions

[https://www.epa.gov/sites/default/files/2017-07/documents/ei\\_guidance\\_may\\_2017\\_final\\_rev.pdf](https://www.epa.gov/sites/default/files/2017-07/documents/ei_guidance_may_2017_final_rev.pdf)

<https://www.epa.gov/air-emissions-inventories/air-emissions-inventory-guidance-documents>

# Important EPA SIP Guidance

## Redesignation Guidance

- Release: September 1992
- Purpose: Describe EPA process for reviewing and approving NAA redesignation requests
- Describes the elements and schedule of requests to redesignate NAAs

<https://www.epa.gov/ozone-pollution/redesignation-and-clean-data-policy-cdp>

# Important EPA SIP Guidance

## O<sub>3</sub>, PM<sub>2.5</sub>, and Regional Haze Modeling Guidance

- Release: November 2018
- Purposes:
  - Describe how to apply an air quality model to support an attainment demonstration or rate of progress analysis
  - Explain how to interpret whether the modeling results support a conclusion that NAAQS attainment or uniform rate of progress will occur by the appropriate date
- Most\* NAA SIPs are required to use modeling as part of attainment demonstration
- Regional Haze SIPs use modeling to show reasonable progress

[https://www.epa.gov/sites/default/files/2020-10/documents/o3-pm-rh-modeling\\_guidance-2018.pdf](https://www.epa.gov/sites/default/files/2020-10/documents/o3-pm-rh-modeling_guidance-2018.pdf)

# Important EPA SIP Guidance

## Permit Modeling Guidance



- Purpose: Provide recommendations on modeling techniques for estimating pollutant concentrations in order to assess control strategies and determine emissions limits
- Appendix W
  - Release: January 2017
  - Adoption of a Preferred General Purpose Dispersion Model
- Screening Procedures for Estimating the Air Quality Impact of Stationary Sources
  - Release: October 1992
  - Guidance on procedures to determine if a source poses a potential threat to air quality

# Important EPA SIP Guidance

## Permit Modeling Guidance

- Ozone and Fine Particulate Matter Permit Modeling
  - Release: July 2022
  - Recommendations on how to conduct ozone and PM<sub>2.5</sub> NAAQS and PSD increments compliance demonstration under the PSD program.
- CAA Section 165(a)(3) requires that a PSD permit application demonstrate that emissions from the new facility will not cause or contribute to a NAAQS violation and will not cause concentrations that exceed allowed increments of additional pollution in attainment areas

[https://www.epa.gov/system/files/documents/2022-07/Guidance\\_for\\_O3\\_PM25\\_Permit\\_Modeling.pdf](https://www.epa.gov/system/files/documents/2022-07/Guidance_for_O3_PM25_Permit_Modeling.pdf)



# Important EPA SIP Guidance

## Reasonable Progress Guidance for Regional Haze

- Release: June 2007
- Purpose: Provide guidance to S/L/Ts in setting Reasonable Progress Goals as part of their Regional Haze SIPs
- CAA Section 169A(a)(4) requires EPA to promulgate regulations to assure reasonable progress toward meeting national visibility goals
- Regional Haze Rule requires States to submit plans with measures to achieve reasonable progress goals for each Class I area.

[https://www3.epa.gov/ttn/naaqs/aqmguidance/collection/cp2/20070601\\_wehrum\\_reasonable\\_progress\\_goals\\_reghaze.pdf](https://www3.epa.gov/ttn/naaqs/aqmguidance/collection/cp2/20070601_wehrum_reasonable_progress_goals_reghaze.pdf)

# Important EPA SIP Guidance

## Control Measures Guidance

- Release: variable
- Purpose: Provide S/L/Ts resources of available NO<sub>x</sub> and VOC control techniques and their cost effectiveness
- CAA Section 108 requires the Administrator to provide information on air pollution control techniques

<https://www.epa.gov/air-quality-implementation-plans/menu-control-measures-naaqs-implementation>

# Important EPA SIP Guidance

## Transportation Emissions Control Guidance

- Purpose: Provide S/L/Ts with direction on how to implement strategies for controlling emissions from the transportation sector.
- General Guidance on Innovative and Voluntary Air Pollution Control Strategies
  - Processes for securing SIP credits for voluntary and innovative emissions reduction programs
- Topic-Specific Transportation Guidance
  - Guidance on specific crediting programs to reduce transportation-related air pollution

<https://www3.epa.gov/otaq/stateresources/policy/>



# Important EPA SIP Guidance

## Other Related Guidance

- Mobile Sources Policy and Guidance

[www3.epa.gov/otaq/stateresources/policy/](http://www3.epa.gov/otaq/stateresources/policy/)

- Transportation Conformity

[www3.epa.gov/otaq/stateresources/transconf/](http://www3.epa.gov/otaq/stateresources/transconf/)

- Public Hearing Guidance

[www3.epa.gov/ttn/oarpg/t1/memoranda/o\\_ei1992.pdf](http://www3.epa.gov/ttn/oarpg/t1/memoranda/o_ei1992.pdf)

- SIP Credit Guidance

[www3.epa.gov/otaq/stateresources/policy/pag\\_guidance.htm](http://www3.epa.gov/otaq/stateresources/policy/pag_guidance.htm)

- SIP Submission Guidance

<https://www.epa.gov/air-quality-implementation-plans/guidance-streamlining-sip-process>

See OAR Guidance pages for pollutant-specific guidance

[www.epa.gov/criteria-air-pollutants](http://www.epa.gov/criteria-air-pollutants)