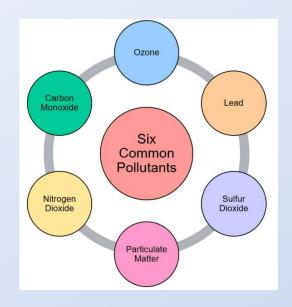
EPA SIP Guidance

SIP 101 Training September 20, 2023 ENVIRONN

Emily Crispell U.S. EPA, Region 5 crispell.emily@epa.gov

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





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 O₃, NO₂, SO₂, and PM_{2.5} 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

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/air-emissions-inventories/air-emissions-inventory-guidance-documents

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

O₃, PM_{2.5}, 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

Permit Modeling Guidance



- 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



Permit Modeling Guidance

- Ozone and Fine Particulate Matter Permit Modeling
 - Release: July 2022
 - Recommendations on how to conduct ozone and $PM_{2.5}$ 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

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/aqmguide/collection/cp2/20070601_wehrum_reasonable_progress_goals_reghaze.pdf

Control Measures Guidance

- Release: variable
- Purpose: Provide S/L/Ts resources of available NOx 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/menucontrol-measures-naaqs-implementation

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/



Other Related Guidance

Mobile Sources Policy and Guidance

www3.epa.gov/otaq/stateresources/policy/

Transportation Conformity

www3.epa.gov/otaq/stateresources/transconf/

Public Hearing Guidance

www3.epa.gov/ttn/oarpg/t1/memoranda/o ei1992.pdf

SIP Credit Guidance

www3.epa.gov/otaq/stateresources/policy/pag_guidance.htm

SIP Submission Guidance

https://www.epa.gov/air-quality-implementation-plans/guidancestreamlining-sip-process

See OAR Guidance pages for pollutant-specific guidance

www.epa.gov/criteria-air-pollutants