

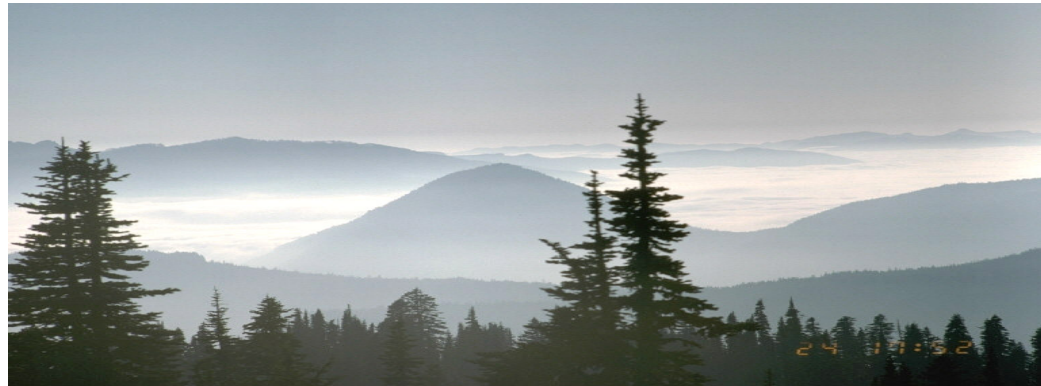
Regional Haze Requirements and Status of SIP Development

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Objectives of presentation

- What's required in haze SIPs?
- What does SIP template address?
- What else is needed to complete the SIP?



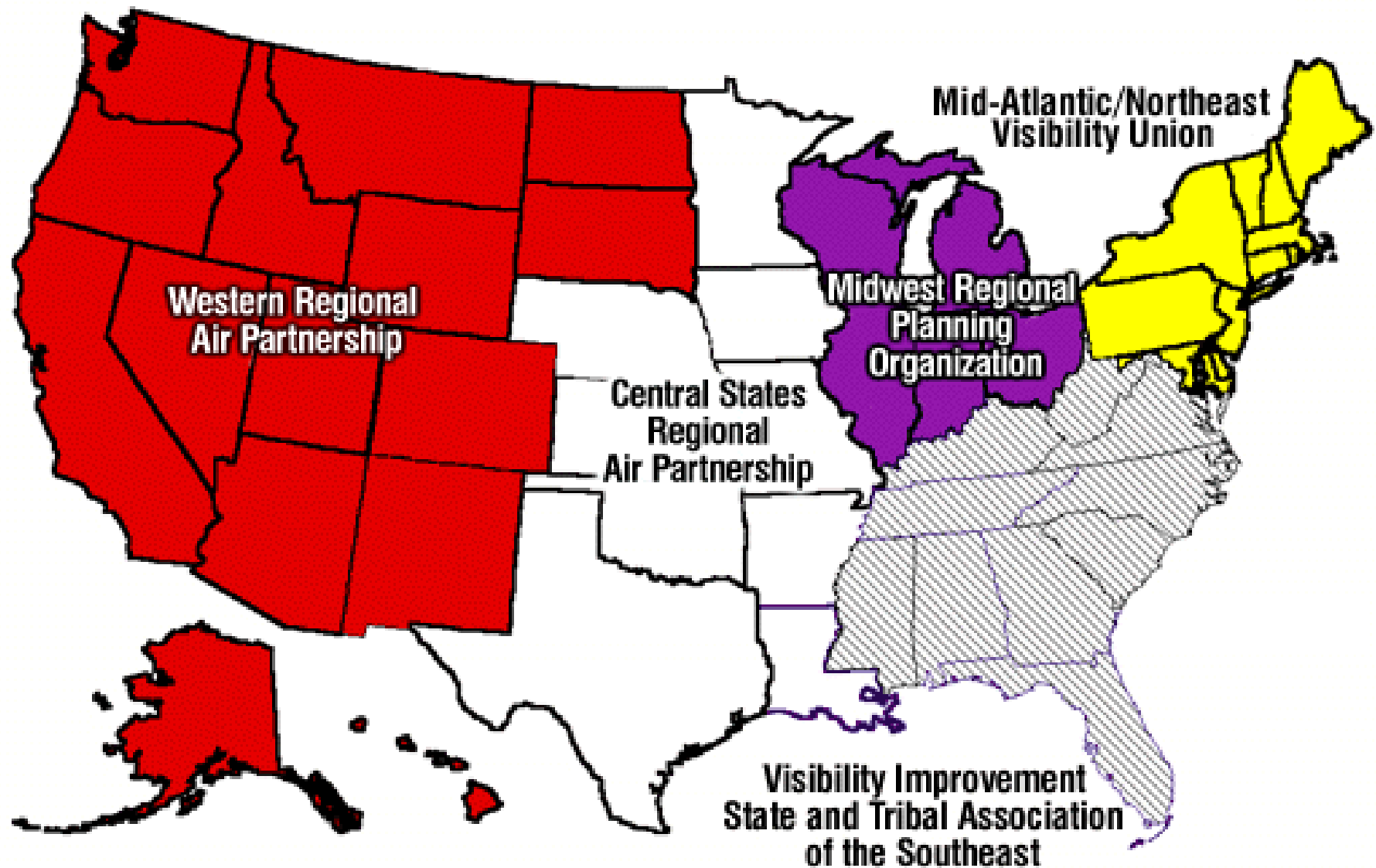
Regional Haze Program

- States must (and tribes may) develop an implementation plan if their sources have emissions which “may reasonably be anticipated to cause or contribute to any impairment of visibility” in any Class I area.

Consultation is Required

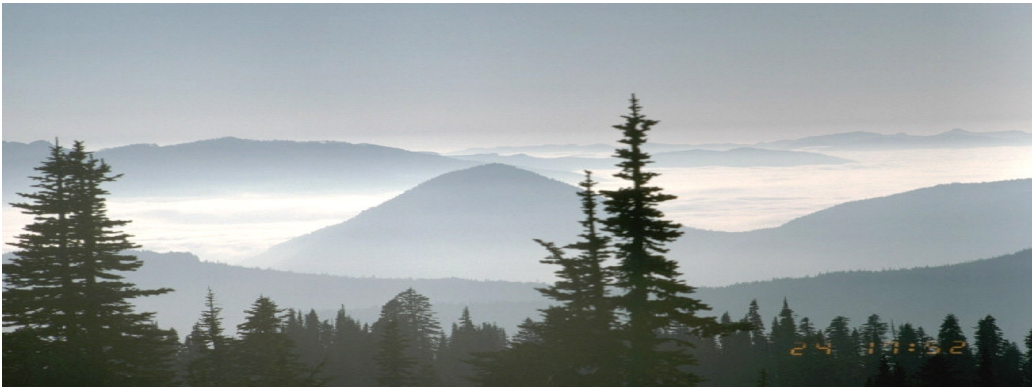
- States/Tribes must consult with Federal Land Managers before adopting SIPs/TIPs
- States with Class I Areas must consult with states/tribes whose sources affect those areas before adopting goals
- All states/tribes affecting a Class I area must also consult on long-term strategy

Regional Planning Organizations



Four Core Requirements of EPA's 1999 Regional Haze Rule

1. Calculate baseline & natural visibility conditions
2. Set reasonable goals for visibility improvement
3. Control grandfathered sources (BART)
4. Adopt additional control measures needed to achieve reasonable progress



1a. Baseline Visibility Conditions

Class I State SIP

Section (d)(2)(i) of 40 CFR 51.308

- Baseline visibility is where we are now
- Baseline Period is 2000-2004
- Average impairment for 20% most and 20% least impaired days annually

1b. Natural Visibility Conditions

Class I State SIP

Section (d)(2)(iii-iv) of 40 CFR 51.308

- Natural visibility is where we want to be—visibility conditions in absence of human-caused air pollution
- Intended to be long-term (5 yr) average best & worst visibility with contemporary land use
- Based on available scientific analysis and relative humidity considerations

2a. Reasonable Progress Goals *Class / State*

Section (d)(1) of 40 CFR 51.308

- Ultimate goal is to reach natural visibility conditions by 2064 (Presumptive Goal)
- First visibility milestone is 2018
- Visibility improvement required for worst 20% of days
- No degradation in visibility for least impaired days

2b. Reasonable Progress Goals

Class I State SIP

Class I State must consider:

- Costs of compliance
- Time needed for compliance
- Energy & non-air quality environmental impacts of compliance
- Remaining useful life of any potentially affected sources

Must consult with FLMs & states affecting the Class I area

SIP must demonstrate how these factors were considered in selecting goals.

3a. Best Available Retrofit Technology

- Required specifically by the Clean Air Act
- Also part of the overall strategy to make reasonable progress in improving visibility in Class I areas
- Applies to major sources contributing to haze that were built in the 15 year period before the enactment of the Clean Air Act Amendments of 1977 (i.e., pre-PSD)

3b. BART

All SIPs

CAA Section 169 A (b)(2)(A) -- 1977

Major stationary sources built in previous 15 years which contribute to visibility impairment must be controlled by best available retrofit technology (BART) as determined by the state.

Section (e) of 40 CFR 51.308 -- 2005

3c. BART--All SIPs

EPA rules require states to:

- List all BART-eligible sources
 - PTE 250 t/y, PSD categories, 8/7/62 – 8/7/77
- Determine which sources contribute to visibility impairment *– those require BART
- Determine BART for each source
- Justify any sources that are exempt
- May examine/establish a trading program

** Or indicate that all BART-eligible sources will be considered subject to BART and proceed to determine BART*

4a. Long Term Strategy Requirement – *All SIPs*

Section (d)(3) of 40 CFR 51.308

Must include

- Enforceable emissions limits
- Compliance schedules
- Other measures necessary to achieve reasonable progress goals at every Class I area affected

BART will be one part of the long term strategy

4b. Long Term Strategy Factors

Section (d)(3)(v) of 40 CFR 51.308

At minimum, the state must consider

- Ongoing air pollution control programs
- Measures to mitigate construction impacts
- Emissions limits & schedules to achieve goals
- Source retirement & replacement schedules
- Smoke management techniques
- Enforceability
- Anticipated net effect on visibility due to changes during the period

4c. Long Term Strategy

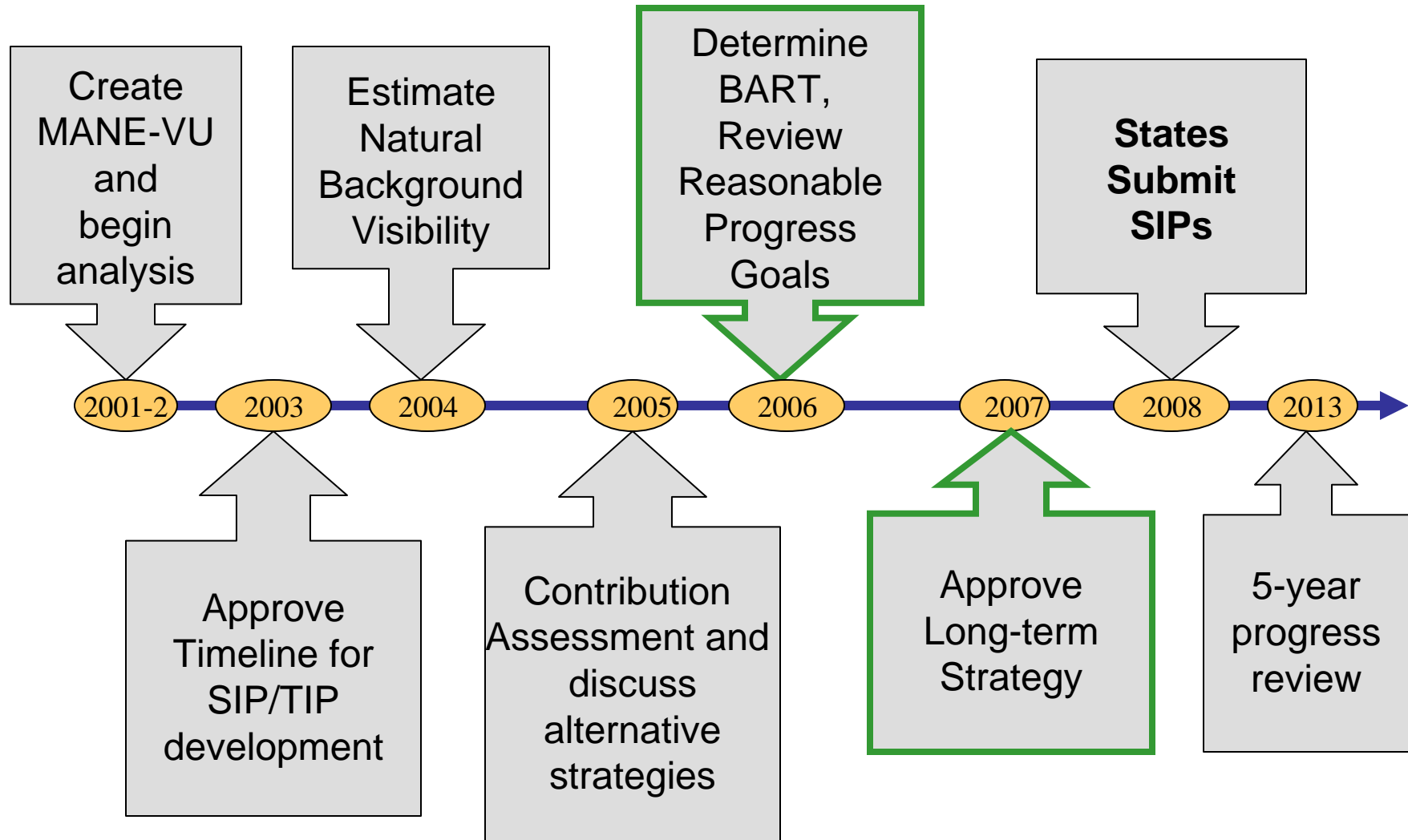
Section (d)(3)(i-iii) & (i)(2), 40 CFR 51.308

- States must consult with each other and FLMs
- State must document basis for its share of reductions
- Strategy must achieve reductions agreed to through RPO process

Additional SIP Elements

- Monitoring sufficient to assess progress
- Inventory of emissions contributing to visibility impairment
- Consultation on Long Term Strategy
- Address all comments by FLMS
- Continuing consultation process

Key MANE-VU Decisions

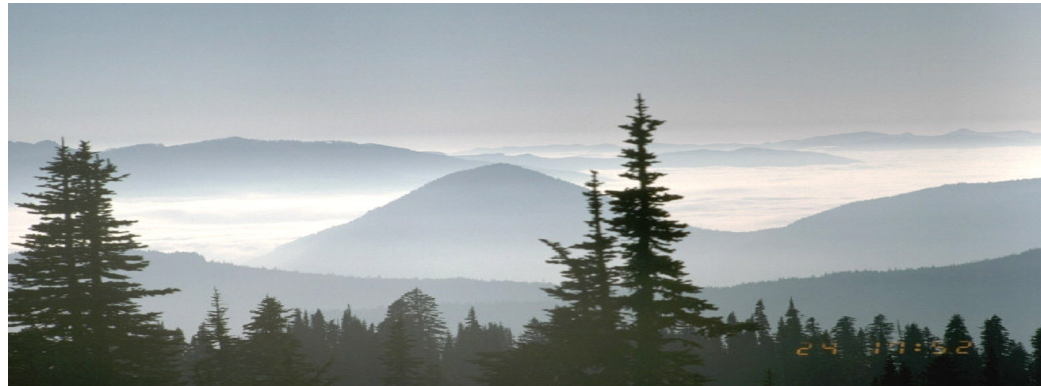


Additional Notes on Timeline

- BART requirements must be included in SIP (December 2007)
- BART sources must implement BART by 5 years after EPA approves SIP
- Progress Reports on SIP implementation due every 5 years
- SIP updates every 10 years

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MANE-VU SIP Template

- Draft completed September 2004
- To be updated in 2006
- MARAMA seeking ideas and suggestions to ensure this meets states' needs
- There are many gaps/blanks
 - Additional information must be developed by NESCAUM, MARAMA, and OTC
 - And, each state will need to customize it

SIP Template Contents

1. Overview of requirements
2. Statement SIP adopted in accordance with state and federal rules
3. Description of MANE-VU and interstate consultation process
4. Description of consultation with FLMs

SIP Template Contents, cont.

5. Baseline and natural conditions estimates*
6. Monitoring strategy*
7. Emissions inventory
8. BART
 - a) BART-Eligible Sources
 - b) BART Determinations
 - c) Analysis of visibility improvements achievable from BART controls*
 - d) Alternatives to BART (e.g., CAIR)

*Class I states only

SIP Template Contents, cont.

9. Reasonable Progress Goals*

- a) Uniform rate of progress is reasonable, or
- b) Alternative rate of progress is reasonable
- c) Comparison to progress from implementation of other CAA requirements
- d) Consultation
- e) Commitment to 5-yr progress reports

*Class I states only

SIP Template Contents, cont.

10. Long Term Strategy

- Document consultation undertaken
- Identify state's share of emission reductions required to achieve reasonable progress
- Technical basis for determination of emissions reductions needed
- Baseline inventory on which strategy is based

(continued...)

SIP Template Contents, cont.

10. Long Term Strategy, continued

- Emissions reductions due to ongoing air pollution programs (list)
- Measures to mitigate impacts of construction activities
- Emission limitations and schedules of compliance
- Source retirement and replacement schedules
- Agricultural and forestry smoke management
(continued...)

SIP Template Contents, cont.

10. Long Term Strategy, continued

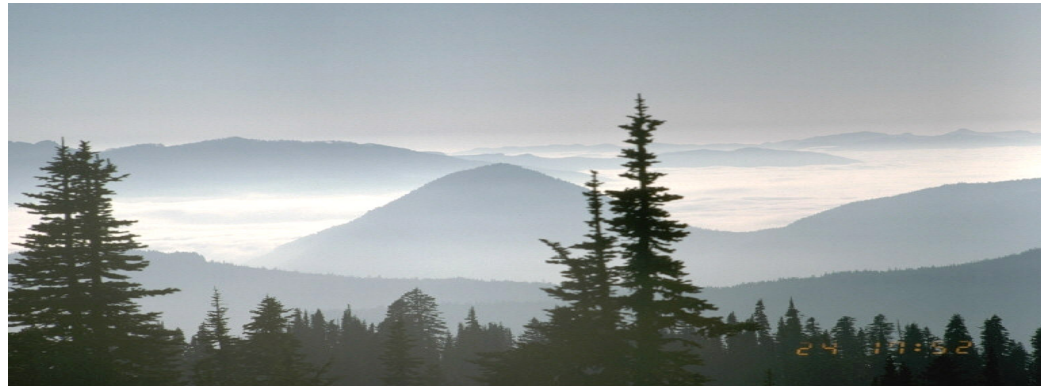
- Enforceability of emission limitations and control measures
- Anticipated net effect on visibility resulting from projected changes to emissions

Additional SIP Template Contents

11. State commitment to revising SIP by 7/31/18 and every 10 years thereafter
12. State commitment to appropriate action based on results of SIP review every 5 years:
 - Negative declaration (no revision needed)
 - Inadequate due to in-state emissions—revise SIP within one year
 - Inadequate due to emissions from other states—notify them and EPA and collaborate to address deficiencies
 - Notify EPA SIP inadequate due to international emissions

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SIP Work Remaining

- See worksheet
 - Review anticipated work products and responsibilities
 - Are requirements met?
 - Are correct and sufficient supporting documents listed?
 - Are responsibilities clear?
 - Schedule?