

Update on Technical and Regulatory Elements of Regional Haze SIPs

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MANE-VU Board Meeting May 8, 2006

Technical & Regulatory Needs

- Contribution Assessment/Pollution
 Apportionment
- Preliminary MANE-VU Modeling
- New IMPROVE Equation
- BART Resource Book

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State-by-State BART 30
 Determination support 25







Contributions to Regional Haze in the Northeast and Mid-Atlantic United States

- Available in draft form taking comments for next month
 - REMSAD with SO₂ tagging
 - CALPUFF with 2 types of Meteorology
 - Trajectory methods (Incremental Probability and Cluster Weighted Probability)

Plus conceptual model, monitoring strategy, baseline conditions, emission inventory, and more...





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Source Models and Receptor Models Agree!





2002 Average SO4 Contributions (by state)

Brigantine



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Example: 2018 Contributions







Sulfate Relative Reductions

2009 Relative Mass Reduction

2018 Relative Mass Reduction



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Projected Mass Reductions Annual Average Sulfate Values













BART Resource Book

- Review of Regulations
- BART Eligible Source List (to the extent possible)
- MANE-VU BART Process and BART Workgroup Recommendations
 - All eligible sources are subject to BART
 - Presumptive levels of control
- BART Technology Assessment and Other Resources
 - M-V Assessment (EGU/ICI/Cement/P&P)
 - Industry Assessments
- BART Determinations (including visibility determinations!)

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Visibility Determinations

- CALPUFF (MM5 driven meteorology)
- CALPUFF (NWS Observation driven met.)
- 2002 contribution and post-BART, if applicable
- Workgroup still investigating metrics, but 24hour maximum impact at each Class I areas against natural conditions seems likely
- Sulfate, PM, and Nitrate will be calculated





Mid-Atlantic/Northeast Visibility Union MANE-VU CAMNET – http://www.hazecam.net









The Clean Air Association of the Northeast States



www.nescaum.org