

Strategic Planning: Regional Haze and PM SIP Resources, 2012-2018

MANE-VU Board Meeting, September 15, 2011

Equinox Hotel, Manchester Village, VT

Acknowledgements

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- ▶ Supported by the generous contributions of states



Purpose of MANE-VU

- ▶ Develop resources in areas where collaboration among the MANE-VU states enables the states to complete their SIPs most cost-effectively



MANE-VU Saves States Money

- ▶ Collaborating to produce common resources—conducting many tasks just once for use by all MANE-VU states
- ▶ Saves states resources that would otherwise be spent “reinventing the wheel”



Resources to be Developed in 2012, for the Five-Year Progress Report for Haze

Key Elements of Five-Year Progress Report on Haze

- ▶ *Status of implementation measures, including the emission reductions achieved*
 - ▶ MANE-VU will quantify state-by-state emissions reductions from 2002-2007 for MANE-VU states (six separate analyses)
 - ▶ MANE-VU will describe the 2007 emissions inventory used in these analyses, and how it differs from the 2002 inventory



Resources to be Developed in 2012, for the Five-Year Progress Report (cont.)

- ▶ *Assessment of emission inventory changes*
 - ▶ How do 2007 emissions compare to 2002-2018 “slope”?
 - ▶ MANE-VU will assess SO₂ emission changes by state and by sector, analyzing any potentially “significant” changes that have limited or impeded progress in improving visibility
- ▶ *Does the current strategy to improve visibility remain adequate?*
 - ▶ To contribute to each state’s analysis, MANE-VU will summarize regional haze SIPs from states within and beyond MANE-VU, which have a transport influence on MANE-VU states



MANE-VU in 2012 Will Also Prepare for the Next PM SIP and Haze SIP

- ▶ *Resources for the 2017 PM SIP and 2018 Haze SIP—MANE-VU will:*
 - ▶ Update regional conceptual model of PM and haze formation
 - ▶ Identify emissions management options for carbonaceous PM 2.5 and NO_x sources (prior work focused on SO₂)
 - ▶ Develop technical support documents for regional measures
 - ▶ Engage in inter-regional consultation and collaboration on inventories, modeling platforms, and inter-regional control measures



PM 2.5 Resources that MANE-VU is Developing in 2011-12

▶ Triggers for State Work

- ▶ Some areas in MANE-VU states are in non-attainment for the current PM 2.5 standard (most have come into monitored attainment)
- ▶ EPA expected to issue more health-protective PM 2.5 standard (proposed in 2011; final in 2012)

▶ Possible MANE-VU Resources

- ▶ MANE-VU currently supports PM SIP workgroup working on maintenance plans and redesignation requests
- ▶ *MANE-VU may want to comment on the proposed PM 2.5 standard*
- ▶ MANE-VU in 2012 will begin looking at control options for some sources of PM (with a regional haze focus)



PM 2.5 Resources That MANE-VU Could Develop in 2013-2017

- ▶ Triggers for State Work:
 - ▶ EPA will finalize PM 2.5 non-attainment designations (expected late 2014)
 - ▶ EPA will require PM 2.5 SIPs (expected to be due in late 2017)
 - ▶ Possible MANE-VU Resources
 - ▶ Develop PM emissions inventories for base year (2011?) and future year uncontrolled (2019?)
 - ▶ Identify options for controlling PM (*could focus on most hazardous sources of PM*)
 - ▶ CMAQ multi-pollutant platform development: meteorological data, emissions data, model testing (to save resources, aim for same future modeling year as for ozone and/or haze)
 - ▶ Develop model rules and policy strategies (by 2015, for adoption by 2017 for 2017 SIP)
 - ▶ Coordinate with other RPOs on measures
 - ▶ Advocate for federal measures
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Regional Haze Resources that MANE-VU Could Develop in 2013-2018

▶ Trigger for State Work

- ▶ EPA will require updated regional haze SIPs by 2018

▶ Possible MANE-VU Resources

- ▶ Emissions inventories of regional haze precursors for a base year (2011?) and a future year (2028?)—(to save resources, aim for same inventory year as for ozone and/or PM)
 - ▶ Regional modeling platform: CMAQ runs; convert CMAQ outputs to haze levels
 - ▶ Identify control measures
 - ▶ Develop model rules
 - ▶ Consult with other RPOs on an inter-RPO agreement
 - ▶ Advocate with EPA for national measures
 - ▶ Prepare SIP materials if needed
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