

MARAMA

**Mid-Atlantic
Regional Air
Management
Association**



Delaware Dept. of Natural Resources and Environmental Control, Air Quality Mgt. Section.
 North Carolina Dept. of Environment and Natural Resources, Division of Air Quality
 Virginia Dept. of Environmental Quality, Division of Air Program Coordination
 New Jersey Dept. of Environmental Protection, Office of Air Quality Mgt.
 West Virginia Dept. of Environmental Protection, Division of Air Quality
 Pennsylvania Dept. of Environmental Protection, Bureau of Air Quality
 Maryland Dept. of the Environment, Air & Radiation Mgt. Admin.
 Allegheny Co. Pennsylvania Health Dept., Air Quality Program
 Philadelphia Dept. of Public Health, Air Management Services
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DEVELOPMENT OF FUTURE YEAR EMISSION INVENTORIES FOR ELECTRIC GENERATING UNITS

APRIL 2005

PROJECT DESCRIPTION:

- For forecasting future emissions from EGU sources, MANE-VU will utilize the Integrated Planning Model (IPM). IPM is an economic model that projects energy supply and demand based on assumptions and inputs provided by the user. After running IPM, the files are converted into emissions modeling files using specified methods to allocate emissions among facilities.
- Future base year inventories (considering ‘on the books’ and ‘on the way’ implementation of controls) and additional control scenarios (‘beyond on the way’) will be developed for 2009, 2013, and 2018. Additional inventory years may be developed as needed, resources permitting.
- MANE-VU is coordinating with VISTAS and MRPO who are funding IPM runs. MANE-VU will provide electric generating unit input (recently updated and quality assured by MANE-VU states) and also will recommend model assumptions. After results from the MRPO and VISTAS runs are reviewed, MANE-VU will proceed with a contract to run IPM for sensitivity analysis and additional control measures analysis.

PRELIMINARY WORK COMPLETED:

- Review of NEEDS and Development of Crosswalk

In March, MARAMA coordinated the review of the National Electric Energy Database System (NEEDS) and the development of a crosswalk that links the MANE-VU 2002 inventory to the NEEDS. NEEDS is required input to IPM, which includes all electric generating sources and relevant data. States reviewed NEEDS and provided corrections to MARAMA in April. States also developed a crosswalk that links the units in the NEEDS to the units in the 2002 MANE-VU inventory. This crosswalk is necessary when post-processing output from IPM to create emissions modeling files. The table below identifies which states provided corrections to the NEEDS and developed a crosswalk.

MANE-VU States that provided corrections to NEEDS		MANE-VU States that developed Crosswalk	
Connecticut	New Jersey	Connecticut	New Jersey
Delaware	Pennsylvania	Delaware	Pennsylvania
Maryland	Rhode Island	Maine	Rhode Island
Massachusetts	Vermont	Maryland	Vermont
New Hampshire	Washington D.C.	Massachusetts	Washington D.C.
		New Hampshire	

NOTE: New York is accepting the NEEDS default data and Maine is not reviewing the NEEDS data set.

- Review of IPM Assumptions

MARAMA coordinated a review of the assumptions that will go into IPM. MARAMA also initiated a stakeholder review of the IPM assumptions. MARAMA received one stakeholder comment from Eugene Trisko, CEED on April 15, 2005.

NEXT STEPS:

- MANE-VU is providing input to the VISTAS and MRPO IPM run which will begin in May 2005.
- Once MANE-VU states review the results from the MRPO/VISTAS IPM runs in June, MANE-VU will develop a contract with ICF to runs sensitivity and control strategy IPM runs.
- MANE-VU anticipates completion on sensitivity runs by September and control strategy runs by October.

TECHNICAL OVERSIGHT COMMITTEE: At least one person has been identified to work on this project from each MANE-VU state.

Dave Fees and Jack Sipple, DNREC; Ron Stannard and Mike Miliani, NY DEC; Wick Havens, PA DEP; Roger Thunell, MDE; Sharon Weber, MA DEP; Andy Bodnarik, NH DEC; Dave Wackter and Wendy Jacobs, CT DEP; Karen Slattery, RI OAR; Tammy Gould, ME; Ray Papalski, NJ DEP; Ram Tangirala, DC; and Paul Wishinski, VT APCD.

CONTACT INFORMATION:

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