

ABSTRACT FOR 2007 EUEC CONFERENCE

**Cost Effective Strategies for Conducting PM2.5 Model Attainment Demonstrations**

U.S. EPA recently issued its Guidance on the Use of Models and Other Analyses for Demonstrating Attainment of Air Quality Goals for Ozone, PM2.5 and Regional Haze.

By April 2008, states and tribes with PM2.5 designated nonattainment areas are obligated to submit State Implementation Plan revisions demonstrating attainment of the PM2.5 annual and 24-hour National Ambient Air Quality Standards (NAAQS) as expeditiously as possible. This SIP revision must include a Model Attainment Demonstration to show that the PM2.5 NAAQS will be attained based on the control measures included in the SIP.

This paper presents ideas for making cost effective Model Attainment Demonstrations for the PM2.5 NAAQS based on the authors experience in this work. Examples from actual Model Attainment Demonstration work will be used.

Among the subjects covered will be:

1. Limitations and critical areas of concern with the above Guidance
2. Improving the accuracy of the speciated emission inventory
3. Interrelationship between application of near-field and regional models in the Model Attainment Demonstration
4. Alternative control scenarios to evaluate
5. Alternative Monitored Design Concentrations and their impact on the predicted future year Design Value
6. Alternative Threshold Concentrations to use in the Relative Reduction Factor calculation and their impact on the predicted future year Design Value
7. Criteria for deciding on the final control strategy for the SIP

This paper is directed to those electric power company personnel responsible for following and responding to government initiatives to develop the State Implementation Plans for attaining the PM2.5 NAAQS.