

## **Regulation 5.30 Program Status Report April 2007**

### **Monitoring Activity**

The Louisville Metro Air Pollution Control District (District) staff continues its ongoing investigation into different monitoring instruments that might be suitable for analyzing the complex mixture of chemicals in Louisville's air. A sales representative from INFICON will be visiting the District to demonstrate a portable GC/MS on May 10, 2007.

During the last week of February, the District received the final report from the U.S. Environmental Protection Agency (EPA), Region 4, Science and Ecosystem Support Division (SESD) for the Cerex UVSentry comparison study. The District has completed writing a summary report including comments on the data and the usability of the Cerex for monitoring in Louisville. The data results have been compared to data results collected by the University of Louisville around the same sampling dates and also to the data results from the West Louisville Air Toxics Study Risk Assessment.

Air Toxics Ltd. in Folsom, California, completed the TO-15 analysis for the short-term hot spots monitoring project performed in support of the Regulation 5.30 stakeholder group process. Tua McDermott is in the process of reviewing the data and writing a report on the results of the sampling. Billy DeWitt and Gary Flispart are assisting by creating models of the three sampling sites.

### **Emissions Inventory**

Speciated emissions inventory projects for area and non-road mobile sources have been completed. More detailed analyses may be done in the future on a source category-specific basis. Bo Fawbush, Lilibeth Lanceta, and Gary are continuing work on the comprehensive toxics emissions inventory that is required to be submitted to the EPA.

### **Modeling – Stationary Sources**

Lilibeth, Billy, and Matt King have developed more detailed source information and modeling parameters based on the STAR 5.30 Area and Minor Source Committee's decision to focus on two source categories, perchloroethylene dry cleaners and waste oil furnaces. A more in-depth evaluation of emissions and modeling scenarios is ongoing. A team from the District visited several dry cleaning facilities to observe actual operating conditions and how the emissions exit the buildings. Both the Federal and California perchloroethylene dry cleaner regulations are being examined in order to develop a plan best suited for Louisville. The federal regulation applies to perchloroethylene dry cleaners in the local area, but shortening the time frames for compliance may be considered as a local initiative. The California regulation, which prohibits the use of perchloroethylene after 2023, provides another option to reduce and eventually eliminate the risk associated with perchloroethylene dry cleaning.

Waste oil furnace TAC emission factors are being further reviewed. Options for reducing the risk from waste oil combustion range from installing taller stacks to banning the practice where unacceptable risks are determined.

### **Modeling - Mobile Sources**

Gary updated a list and maps from 2005 identifying truck transfer facilities in Louisville. The updated maps were presented to STAR 5.30 Mobile and Non-Road Mobile Source Committee.

Gary investigated risk from a typical idling diesel truck. The resulting MOBILE6 truck idling emission factors correlated to, but were superseded by, more detailed research performed and published by the California Air Resources Board (CARB). The CARB tables were presented to the STAR 5.30 Mobile and Non-Road Mobile Source committee.

Gary prepared a hypothetical modeling case of a six-lane interstate highway with volumes matching highest known real volumes in Jefferson County (136,000 vehicles/day each way). Billy then performed an AERMOD modeling of the case and the results were presented to STAR 5.30 Mobile and Non-Road Mobile Source committee.

### **Report and Plan of Action**

All of the District staff involved with the Regulation 5.30 effort have been drafting background information for the Report and Plan of Action.

### **Stakeholder Group**

The STAR 5.30 Stakeholder Group held its tenth meeting on Thursday, April 12th. Progress to date by the committees and the time needed for completion of the group's task were the main items of discussion.

The next STAR 5.30 Stakeholder Group Committee meetings are:

- Wednesday, April 18, 3:30 p.m. – Area and Minor Source Committee
- Friday, April 27, 9:00 a.m. – Health/Risk Committee
- Wednesday, May 9, 9:00 a.m. – Mobile and Non-Road Mobile Source Committee
- Friday, May 18, 10:30 a.m. – Report and Plan of Action Committee

The next Stakeholder Group meeting is Thursday, May 10th, 2:00 p.m.