

Regulation 5.30 Program Status Report July 2007

Monitoring Activity

Ongoing investigation into different monitoring instruments that are suitable for Louisville's complex air continues. A sales representative from INFICON visited the District to demonstrate a portable GC/MS on May 10, 2007. Tua McDermott, of the District, has been coordinating with KY DAQ to visit their OPSIS (computerized UV and IR instrument) site to evaluate the instrument. A document comparing instruments available for various analytical components of Louisville's air has been prepared.

Emissions Inventory

Lilibeth Lanceta and Bo Fawbush completed the minor source emissions inventories. The completed inventories are now being reviewed by the District's engineering staff. Lilibeth began reviewing emissions inventories for gas stations.

Modeling – Stationary Sources

Matt King, Billy DeWitt, and Lilibeth modeled several backyard charcoal grills, a non-stationary area source, for the Health/Risk Committee. Several examples of non-stationary area sources include house painting, lawn mowing, and pesticide application. Although total countywide emissions from these processes are significant, their relatively disperse nature would suggest a low level of risk evenly spread across the county. Most of these area sources operate at irregular intervals, and do not lend themselves to the standard modeling and risk analysis. A scenario with one charcoal grill operating for one hour per day, five days per week, for thirty weeks during the year was examined. The estimated lifetime risk of this activity on a neighbor 20 feet away was shown to be well below 1 in one million additional cancer cases. Based on this information, the Health/Risk Committee determined Environmental Acceptability Goals for non-stationary area sources.

Mobile and Non-Road Mobile Sources

Tom Pinto and Michelle Stites began working with the Metro Planning & Design staff to develop ways for which the Land Development Code could be revised to emphasize the need for minimizing exposure of sensitive individuals and residential neighborhoods to high concentrations of mobile source emissions, particularly diesel particulate matter, resulting from normal traffic and facilities at which significant vehicle idling occurs.

Craig Butler attended training at the Kentuckiana Regional Planning and Development Agency (KIPDA) and in Frankfort on "Project Level Highway Air Quality Analysis" May 22-24, 2007. Craig is currently training on EMIT, MOBILE6, CAL3QHC, CALINE3, NONROAD, and NMIM modeling software.

Report and Plan of Action

All District staff members involved with the Regulation 5.30 effort continue to draft updated sections for the Report and Plan of Action.

Stakeholder Group

The STAR 5.30 Stakeholder Group will hold its thirteenth meeting on Thursday, July 12th. Building consensus on group recommendations is the focus of this meeting.

The next Stakeholder Group meeting is Thursday, August 9, 2007 at 2:00 p.m.