

Regulation 5.30 Program Status Report October 2006

Monitoring Activity

Since the last Board meeting, Louisville Metro Air Pollution Control District (APCD) has continued to develop a project plan for a hot spot toxics monitoring program. The goal of the activity is to implement a short-term emission source and receptor monitoring plan in Louisville, Kentucky to help assess possible emissions and ambient concentrations from smaller businesses, non-road mobile sources, and mobile sources in the community. The sources chosen fall under Regulation 5.30 of the STAR Program.

Several potential sources and receptors are currently being considered, including one hot spot intersection suitable for monitoring mobile sources. The goal is to begin sampling in November. In the interim, Ms. Tua Pickering is conducting research into various types of equipment for monitoring mobile source emissions and will be in contact with other air monitoring districts in order to determine the most suitable techniques for the proposed mobile source monitoring.

On September 28 -29, Ms. Cynthia Lee and Ms. Pickering from APCD traveled to Houston, Texas, to evaluate the IMACC FTIR for suitability to use for monitoring air toxics in Louisville. In situ tests with vinyl chloride were performed at different path lengths. Dr. Spellicy from IMACC demonstrated the software and gave a short tutorial on how the software works. The Environmental Manager at Texas Petro Company was available to answer questions and provide an unbiased opinion of the instrument's use at his facility. He also gave reasons as to why he chose the IMACC instrument over all the other instruments he assessed, including the Cerex and Opsis systems.

The APCD has not yet received EPA's data summaries from the Cerex UVSentry comparison study which were expected at the end of September. Science and Ecosystems Support Division staff at EPA Region IV informed the APCD that the earliest the draft report will be ready is now the end of October because EPA and Cerex are discussing some data matters.

Emissions Inventory

Bo Fawbush is in the finishing stages of a STAR Emissions spreadsheet that he created for all Title V 2005 Category 1 toxic air contaminant (TAC) emissions inventories. He is awaiting additional information from a handful of companies, but the document should be ready for review in approximately one week.

Lilibeth Lanceta continues working on speciated emission factors for area sources, and most recently emission factors for gas stations.

Modeling

Billy Dewitt is working on an initial Tier 4 modeling project, as well as developing several Quality Assurance procedures and performing various emissions inventories based on Lilibeth Lanceta's speciation data.

Development Action

Erin Simpson has been researching a potential funding opportunity, EPA's CARE program, for use in implementing the goals and strategies of Regulation 5.30. In September, Paul Wagner from EPA Region 4 in Atlanta met with members of APCD's staff and the community to discuss this opportunity. Other activities this month have included stakeholder outreach and planning.

Stakeholder Group

The STAR 5.30 Stakeholder Group will hold its fourth meeting on Thursday, October 12. The meeting is scheduled to include a presentation on air toxics at the federal level by Dr. Ken Mitchell, Chief of Air Toxics Assessment and Implementation Section, EPA Region 4. The meeting will also include further discussion of the District's revised monitoring plan, as well as its matrix and timeline for the Stakeholder group's activities. In addition to its monthly meeting, the District will hold two additional workshops for the Stakeholder Group, on Tuesday, October 10, and Friday, October 13, to discuss the development and the basics of the STAR program.