

Regulation 5.30 Program Status Report: August 2006

Monitoring Activity

During the week of July 17, 2006, Louisville Metro Air Pollution Control District (APCD) collected data for analysis of ambient volatile organic compound (VOC) concentrations in Louisville, Kentucky. This study was undertaken to meet the validation requirements in the *Quality Assurance Project Plan for the Louisville Air Toxics Monitoring Reduction Plan, Assessment of CEREX UV Sentry's Suitability for Monitoring Air Toxics in Louisville* (QAPP), Revision No.1, September 2005. Three sampling locations were chosen: American Synthetic Rubber Company, Firearms Training, and the University of Louisville Shelby Campus. Ambient air data were collected at one minute averages for all 3-hour sampling periods by the Cerex UVSentry, which was operated by Mr. Benny Tadele from Cerex, and Ms. Tua Pickering, Mr. Marty Layman, and Ms. Cynthia Lee from the APCD. The data will be processed and analyzed by Cerex. The U.S. Environmental Protection Agency (EPA) Region 4 Science and Ecosystem Support Division (SESD) staff collected air samples using evacuated canisters. The canisters are being analyzed in the EPA laboratory using EPA Method TO-15. The canister data will be compared to the data collected by the Cerex UVSentry.



August 8, 2006

Emissions Inventory

Bo Fawbush has begun verifying the 2005 Title V emissions inventories that were submitted to the APCD on April 15. Next he will begin working on FEDOOP (Federally Enforceable District Origin Operating Permit) sources. Lilibeth Lanceta, who joined the APCD in July, has started the development of toxic emissions inventories for minor, area, and nonroad sources.

Modeling

For years, the EPA's approved refined model was ISCST3. Refined models use a set of meteorological data that is representative of the area being modeled. Typically this data comes from the National Weather Service. Modeling is performed using the meteorological data set that has been approved by the permitting authority. Late last year, the EPA announced that ISCST3 would be replaced by AERMOD. Processing for meteorological files for AERMOD is much more involved and complicated than for ISCST3. Billy Dewitt has reviewed the new AERMOD data files, reprocessed the data files for quality assurance purposes, and merged the five 1-year data sets into a single five-year data set. He is now running beta tests on the merged data and the APCD is very close to releasing the AERMOD-compatible meteorological data files for public use.

Development Action

Erin Simpson summarized her participation in the EPA's Community Involvement conference for an interoffice report, and will give a presentation to the stakeholder group regarding the Regulation 5.30 Plan of Action outline.

Stakeholder Group

The Regulation 5.30 Stakeholder Group will hold its second meeting on Thursday, August 10. The meeting will feature a presentation by Dr. Solomon Pollard, Jr., Senior Toxicologist, EPA Region 4, on the health and science of toxicity assessment.