

AGENDA
AIR QUALITY ADVISORY COMMITTEE*
TUESDAY October 29, 2013
10:00 a.m. - 12:00 noon
East-West Gateway Board Room

- I. Call to Order**
 - Michael Coulson, Chair, East-West Gateway Council of Governments
 - A. Minutes of September 24, 2013 Meeting

- II. Update on NASA's SouthEast American Consortium for Intensive Ozonesonde Network Study (SEACIONS): The St. Louis Connection**
 - Jack Fishman, Ph.D., St. Louis University

- III. Illinois Air Quality Planning Activities and Air Quality Issues of Interest**
 - David Bloomberg, Illinois Environmental Protection Agency

- IV. American Fuel Group Report**
 - St. Louis Regional Clean Cities Program

- V. 2013 Ozone Season Report**
 - East-West Gateway Council of Governments

- VI. Update Activities of the States**
 - Illinois Environmental Protection Agency
 - Missouri Department of Natural Resources

- VII. Other Business**

- VIII. Adjournment**

*Please note that this meeting will serve as a part of the Inter-Agency Consultation Process as detailed in the Missouri Transportation Conformity SIP.

MINUTES
AIR QUALITY ADVISORY COMMITTEE
Tuesday, September 24, 2013
East-West Gateway Board Room

Members Present:

Michael Coulson, Chair, East-West Gateway Council of Governments
Wendy Vit - Missouri Department of Natural Resources
Joe Winkelmann - Missouri Department of Natural Resources
Mike Henderson - Missouri Department of Transportation
Jeremy Rogus - St. Louis County Department of Health
Betsy Tracy - Federal Highway Administration, IL
Christopher Schmidt - Illinois Department of Transportation
David Bloomberg - Illinois Environmental Protection Agency

Others Present:

Joe Gray - Illinois Department of Transportation, District 8
Emily Wilbur - Missouri Department of Natural Resources
David Shanks - Boeing
Meredith Klekota - Trailnet
Kevin Herdler - St. Louis Regional Clean Cities
Bill Wisbrock - St. Louis Regional Clean Cities
Amy Bhesania - U.S. Environmental Protection Agency Region 7 (telephone)
Bob Klepper - Missouri Coalition for the Environment (telephone)

Staff:

David Wilson Gary Pondrom Carol Lawrence

- I. Call to Order
 - Michael Coulson, Chair, East-West Gateway Council of Governments

The meeting of the Air Quality Advisory Committee (AQAC) was called to order by Chair Michael Coulson, East-West Gateway Council of Governments (EWGCOG). The minutes of the July 30, 2013 AQAC meeting were approved as circulated.

- II. OneSTL: Update on the Plan
 - David Wilson, East-West Gateway Council of Governments

The aim is to develop a regional plan for sustainable development which will bring in many more partners thus leading to the name of OneSTL. If everyone in the two states, eight counties and 200 plus municipalities can work together more effectively, than the region can compete more effectively in the global marketplace. Focus of the plan is helping communities be what they want to be and pursue their own vision of the future and yet work together.

The OneSTL process has been overseen by a Steering Committee made up of representatives from the 11 Consortium partners and three standing committees. The Technical Planning Committee had five subcommittees and work groups for transit oriented development (TOD), environmental best practices, data portal development and other topics. There is also a Community Engagement Committee. The Outcome Management Committee has been working on ways to determine if the goals in the plan are being achieved and what steps are needed to move OneSTL forward. As OneSTL is a new plan, it has been challenging to identify what its focus should be and where the best results will occur.

The process began more than two years ago with a series of listening sessions in 11 different planning areas in the St. Louis region. They were a cross sectional representation of the different kinds of communities found in the region. At these 33 meetings the partners learned what concerns, priorities and interests residents had about their communities and where they would like to see their communities go in the future. A survey was also conducted to identify priority issues. This process encourages people to think about what they want the future of their community to be. The standing committees oversaw 75 different plans, studies and associated reports which were supported by 61 public meetings.

Out of these activities and reports, priority issues and concerns were identified and nine major themes were delineated. The themes include: collaborative; prosperous; distinctive; inclusive; green; prepared; connected; efficient; and educated. From planning area meetings, learned that the public believed that local government should be working with neighboring local governments to solve local/sub-regional problems. In all of the planning areas, residents said that they liked where they lived and liked what they had there. That perspective was synthesized into distinctive nature of different communities in the region and people have made a choice to live in one place or another based on their values and likes. A regional plan is being developed but it is not meant to create a mono-culture, want distinctiveness.

Some of the transportation reported completed as part of the OneSTL effort included municipal and county bicycle/pedestrian plans and four best practices guides for transportation programs. Metro, Great Rivers Greenway and EWG, working in partnership with local governments, conducted a series of TOD studies along the MetroLink line. A high-level financial overview of potential for investment at all 30 stations was conducted. Some stations have more development opportunity than others. Working with local governments, in-depth station area TOD plans were conducted. Citizens for Modern Transit (CMT), with the Urban Land Institute, organized technical assistance panels that reviewed station plans for Belleville, University of Missouri St. Louis (UMSL) South and Grand (City of St. Louis) and for possible station at CORTEX site in the City. Outside experts gave feedback and suggestions concerning development strategies. Information about strategies for longer term planning/development gained from these efforts was compiled into two TOD best practices guides. CMT has pointed out that One STL is not just a planning effort but that implementation is already underway. In addition, a request for qualifications for development is out for the Belleville station, a Chapter 353 for tax support has been established for the UMSL South station with UMSL as the lead developing partner. A grant has been received to develop form-based overlay codes at both the Grand and St. Charles Rock Road stations. A feasibility study is underway for a new

MetroLink station at the CORTEX site in central City of St. Louis. A variety of other reports have been produced for local governments. Topics included: code and ordinance reviews for municipalities so they can support more sustainable development practices; housing assessments and a housing study; environmental studies (water, wastewater, stormwater); climate change assessment; public engagement efforts; and development scenario and process evaluation.

All of the Consortium partners, like CMT, have identified key elements within the OneSTL goals and objectives that they intend to focus on going forward. One of the strengths of this plan is that it is not an EWG plan solely. It is a plan that 11 partners worked on plus a lot of other agencies/organizations. Over the next year hope to build on the number of organizations/agencies who endorse the plan and identify key strategies/actions that they will take the lead on. HeartLands Conservancy is a key Illinois partner and lead environmental organization for OneSTL. HeartLands has produced a number of reports targeting environmental aspects (water infrastructure, community bike/pedestrian plans, toolkit) for Illinois counties. From these studies they have been able to develop green infrastructure strategies for the entire region. Going forward, HeartLands will continue to focus on Metro East counties and will work on Complete Street legislation with local communities and green infrastructure. As part of a broader collaboration, HeartLands is involved in obtaining a higher designation for the Cahokia Mounds World Heritage sites and in linking trails to other mounds in region to increase potential for more tourism activities.

As part of OneSTL effort, two web sites have been developed. The primary web site is www.oneSTL.org. This web site contains the draft plan, description of the process, measures of success and the 75 plans and studies produced by the Consortium Partners. Under development is a toolkit of best management practices/sustainable solutions that local governments can review and use. EWG has committed to maintain the OneSTL site. St. Louis University is managing the second web site. It is a regional data portal (www.stlouisdata.org) that provides people and local governments the opportunity to access and share databases and develop and print digital maps.

From August through September, OneSTL has been holding open houses on the draft OneSTL. There will be a presentation on the draft plan at the September EWG Board of Directors meeting. Board action could occur in October or they may decide that more discussion and review is needed before action in December 2013. On November 15 before the EWG Annual Meeting workshops will be held to introduce the OneSTL plan and the best practices toolkit. After the grant ends in December 2013, implementation will be the next step. This will consist of presentations and seeking endorsements from others who want to be part of the plan process. The plan can be used to coordinate a variety of partnerships throughout the region.

III. Missouri Air Quality Planning Activities and Air Quality Issues of Interest - Wendy Vit, Missouri Department of Natural Resources

The Air Quality Planning section of the Air Pollution Control Program (APCP) of the Missouri Department of Natural Resources (MoDNR) is divided into two units. The State Implementation Plan (SIP) Unit is charged with developing SIPs, including computer modeling, and preparing National Ambient Air Quality Standards (NAAQSs) boundary designation recommendations. Emily

Wilbur is the SIP Unit Chief and Joe Winkelmann is a Senior Engineer in this Unit. The Rules Unit, Wayne Graf Unit Chief, is responsible for developing state rules.

Two ozone NAAQS are in play right now. MoDNR is working to wrap up the 1997 eight-hour ozone standard for the Missouri portion of the St. Louis non-attainment area. The area had three years of clean data (no violations) and process to be redesignated was underway in 2012. But with the hot summer of 2012, one monitor violated this standard. The 2013 summer has been milder and this monitor is back in compliance. MoDNR is working with USEPA Region 7 to be finished with this standard so can focus totally on the 2008 eight-hour ozone NAAQS. For the 2008 standard, in Missouri, only the five county St. Louis region was designated as non-attainment. St. Louis is classified as marginal which is closest to attaining the standard. A minimal SIP is due in summer 2014 with attainment to occur by December 31, 2015. The plan is going to rely on controls already in place in the St. Louis region plus the implementation of federal controls (cleaner cars and trucks, transport rule, etc.) That mix of controls should be what is needed to bring the area into attainment. The three years of ozone monitor data to be used to show attainment of the 2008 standard will be 2013-2015.

USEPA currently is reviewing the ozone NAAQS and should announce a decision later this year or early in 2014. If the standard is lowered, there could be implications for the St. Louis region as well as other areas. Kansas City, Springfield and southeast Missouri have joined the USEPA Voluntary Ozone Advance Program which encourages voluntary emissions reductions to achieve ozone benefits and avoid non-attainment designation. Joplin is organizing a Ozone subcommittee for the Tri-State Clean Air Alliance Board.

For the 1997 annual fine particulate ($PM_{2.5}$) standard, the St. Louis (MO-IL) non-attainment area has clean data (no violation of standard). MoDNR is working with USEPA Region 7 to have the Missouri portion redesignated as attainment. If redesignated, then would need to keep existing controls in place to insure continued attainment of the 1997 standard. In 2012 a tighter annual $PM_{2.5}$ standard was set. Missouri does not have any monitors in violation of the 2012 standard. Over the last several months MoDNR has been developing boundary recommendations (non-attainment, attainment/unclassifiable). Much of the focus has been on determining what impact does Missouri have on the closest violating monitors in Illinois. Expect to recommend that the entire state of Missouri be designated as attainment/unclassifiable. This recommendation will be posted for a 30-day review and comment period on September 30. The Missouri Air Conservation Commission (MACC) will hold a public hearing on October 30 and will adopt the recommendation in December. It will then be submitted to USEPA. The final designation decision will be made by USEPA in one year's time.

Mr. Coulson, EWG, observed that for ozone in years gone by, USEPA has been reluctant to break up the St. Louis non-attainment area. Ms. Vit, MoDNR, said that dialogue with USEPA has already begun. MoDNR analysis shows that, in terms of meaningful contribution from nearby Missouri sources to violating Illinois monitors, the Missouri sources may be contributing more to the background levels. In terms of what is causing a specific Illinois to violate, MoDNR is seeing that more as a localized direct $PM_{2.5}$ issue and more about nearby sources on the Illinois side. It will be interesting to see how USEPA responds to this recommendation.

The 2010 sulfur dioxide (SO₂) standard is a localized, source-specific standard. USEPA finalized initial non-attainment areas based on violating monitors. There is a small non-attainment area in downtown Kansas City (steam generating facility) and another is in eastern Jefferson County (power plants and Doe Run primary lead smelter in Herculaneum). MoDNR is working with the sources in these areas. SIPs are due in April 2015 and the attainment deadline is October 2018. In the future other non-attainment areas may be designated based on modeling and new monitors. USEPA is to issue guidance and rule-making which will establish what additional SO₂ sources throughout the state will need to be evaluated.

In 2012, the Missouri legislature established a state rule requiring all state rules be reviewed on a five-year schedule. The review of the 700 MoDNR rules is to begin in 2016. To start the process there will be a notice in the Missouri Register listing all the rules and open a 60-day public review and comment period. MoDNR must develop reports addressing: rule necessity; duplicate requirements; ways to reduce burdens; and response to public comments. As the APCP has 100 rules, the APCP has begun to work on this effort and the Air Program Advisory Forum stakeholder group is assisting with information gathering.

The Stage II Vapor Recovery Program at gas stations in the Missouri portion of the St. Louis region has been a key ozone control strategy since the 1980s. Nozzles at gas pumps capture the vapors displaced during refueling. Now, 1996 model year and newer vehicles have technology that performs the same action. In May 2012 USEPA issued a rule that stated that this vehicle technology is in widespread use (making Stage II obsolete) and gave states the option to phase out Stage II equipment. MoDNR evaluated their Stage II program and vehicle fleet characteristics and determined that removal of the Stage II equipment will not have a negative impact on air quality. In the St. Louis region 700 facilities are subject to Stage II requirements. The decommissioning process is being done in parallel with rule-making/SIP development process. Decommissioning of new facilities started in late 2012 and all facilities were allowed to decommission as of March 15, 2013. As of late August, 227 facilities have been decommissioned and decommissioning is underway at 245. This fall the proposed rule will be posted for a 60-day informal review and comment period. In 2014 there will be a 30-day public review and comment period, a public hearing by the MACC and then adoption of the rule by MACC late in 2014.

It is anticipated that upcoming USEPA utility regulations are going to impact the state. As result of the President's Climate Action Plan, USEPA has release a proposed rule to address carbon pollution from new power plants. In June 2014, a proposed rule for existing powers plants is expected with final rule in June 2015. USEPA has begun outreach efforts. USEPA is developing a new transport rule regulating SO₂ and nitrogen dioxide (NO₂) emissions in order to control ozone and PM_{2.5} levels. The U.S. Supreme Court is reviewing lower court's decision on the Cross State Air Pollution rule.

For information about air items on public notice, the Air Program Advisory Forum and the Stage II Vapor Recovery Program rule go to www.dnr.mo.gov/env/apcp.

IV. American Fuel Group Report
- Kevin Herdler, St. Louis Regional Clean Cities Program

The St. Louis Regional Clean Cities program (SLCC) is part of the Mid-America Collaborative for Alternative Fuel Implementation (Kansas, Iowa, Nebraska and Missouri). Mr. Herdler is working on the air quality section and will be looking at air quality issues and how American Fuel vehicles can fit into SIP planning. ICF International has been selected to develop a methodology to work with American fuels in the MOVES model and to evaluate the air quality impact of alternative fuel vehicles under different scenarios. The aim is to develop a methodology which can be used by other planning and air agencies. This project is expected to be completed by February 2014.

On October 24, SLCC will hold an Alternative Fuel event at Gateway Motorsports Park in Madison IL. Ride and drives will take place on the road course and the oval and there will be panel discussions on each fuel type.

Mr. Herdler is assisting the National Alternative Fuels Training Consortium (NAFTC) at West Virginia University in the development of curriculum for first responders, tow truck drivers and salvage yard operators on how to deal with alternative fuel vehicles.

SLCC is working with Clean Cities Board member Bill Wisbrock on a landfill gas recovery project in St. Clair County. Mr. Wisbrock said that he is working with the village of Marissa. Waste Management operates a landfill near Marissa and has given the landfill gas to Marissa which the village does not want. He has a memorandum of understanding with Marissa to clean up the gas and have pipeline-quality gas that can go into the Ameren pipeline and liquid carbon dioxide (CO₂). Liquid CO₂ can be used as an abrasive to clean graffiti and industrial machinery and leaves no residual. Mr. Shanks, Boeing, said that his company uses CO₂ pellets to strip paint off of helicopters.

V. Update Activities of the States
- David Bloomberg, Illinois Environmental Protection Agency
- Wendy Vit, Missouri Department of Natural Resources

Julie Armitage is now the Chief of the Bureau of Air at Illinois EPA. Prior to this she was the head of the Air Enforcement Section and had served as acting Chief Legal Counsel for Illinois EPA. In addition, the head of the Permits Section has retired

There are two SO₂ non-attainment areas in northern Illinois. Illinois EPA has been meeting with the various culpable sources in these areas. Modeling shows that these sources have an impact in that specific non-attainment area. Illinois EPA is working with them to figure out how to best reduce their emissions. The process to finalize the lead rule for the Granite City non-attainment area continues. Mayco has already applied for permits for construction so they can install the necessary controls fairly soon. Illinois EPA is working on their designation recommendations for the 2012 PM_{2.5} standard and will make a presentation on them at the October AQAC meeting.

The MACC meets on September 26 in Kansas City. Three items are up for public hearing. One is a proposed amendment to 10 CSR10-6.020 definitions rule. Another hearing will be for a new state

rule related to the new federal regulation for commercial/industrial solid waste incinerator units. The federal regulation is being incorporated by reference into the state rule. Also up for public hearing is the associated plan for implementation of commercial/industrial solid waste incinerator emissions guidelines.

Mr. Coulson, EWG, asked if the SO₂ problem would go away with the closure of the operations at the Doe Run facility in Herculaneum. Mr. Winkelmann, MoDNR, said that Doe Run's sinter plant will close at the end of 2013 and all pyro-smelting technology will stop by spring 2014. It is expected that SO₂ emissions from that facility will be practically zero. However, this non-attainment area also contains the Meramec power plant (Ameren) to the north and the Rush Island power plant (Ameren) to the south. Part of the planning effort will be to examine the effect of them.

VI. Other Business

Mr. Coulson, EWG, reported that there have been 15 exceedances of the 2008 eight-hour ozone standard over 7 days at eight monitors. Ten exceedances occurred during the early September heat wave. Last year the West Alton monitor was in violation of the 1997 eight-hour ozone standard and with this summer it is back in compliance. The number of 90° F days (37) was comparable to the average number of 90° F days which show that the control programs are working.

Ms. Lawrence, EWG, said that EWG is looking for nominations for its Outstanding Local Government Achievement Awards. These awards in five different categories will be presented at EWG's annual meeting in November. Please contact Julie Stone for more information.

Mr. Schmitt, Illinois Department of Transportation (IDOT), announced that the IDOT statewide draft Multi-Modal Transportation Improvement Program (TIP) for FY 2014-2019 is out for review and comment. IDOT is conducting outreach on its comprehensive, statewide Illinois Bike Transportation Plan. There will be a public meeting from 4 p.m. until 6 p.m. at the IDOT District 8 offices in Collinsville on this plan and the District 8 portion of the statewide TIP. These drafts are available online at: www.dot.il.gov/hip1419/hwyimprov.htm and www.illinoisbikeplan.com.

The next meeting of the AQAC was scheduled for October 29, 2013. There being no other business, the meeting of the Air Quality Advisory Committee was adjourned.