

Metropolitan Washington Air Quality Committee

Suite 300, 777 North Capitol Street, N.E. Washington, D.C. 20002-4290 202-962-3358 Fax: 202-962-3203

TECHNICAL ADVISORY COMMITTEE

Date: April 13, 2010

Time: 10 am to 12 pm

COG Board Room, 3rd Floor

Lunch will be served to members at noon

DRAFT Agenda

-
- 10:00 1. Call to Order and Review of Meeting Summary (March 9, 2010)**
Chairman Cecily Beall, District Department of Environment
- 10:10 2. SIP Status Update**
State air agency representatives will provide an update on approval status of the region's submitted SIPs.
- 10:20 3. What Would It Take Scenario Study Results**
Daivamani Sivasailam, COG/DTP, will discuss draft results of the "What Would It Take" analysis for meeting mobile source greenhouse gas reduction targets.
- 10:40 4. Alternative Scenarios Development for Weight of Evidence**
Members will discuss development of possible alternative emission growth scenarios for use in weight of evidence for upcoming SIP development.
- 11:00 5. Air Quality Monitors in Fairfax County**
Sunil Kumar, COG DEP, will discuss issues related to proposed closure of air quality monitoring sites in Fairfax County.
- 11:20 6. EPA Regulatory Actions: Update**
Jeff King, COG DEP, will discuss recent EPA regulatory actions, including new greenhouse gas emission standards for motor vehicles and proposed delay in implementing greenhouse gas regulations.
- 11:30 7. Other Business**
Start of Ozone Season Forecasting
- 11:45 8. State and Local Air Agency Reports**
- 11:55 9. Set Date for Next Meeting, Future Agenda Items, Adjourn, Next TAC Meeting: May 11, 2010**



Reasonable accommodations are provided for persons with disabilities. Please allow 7 business days to process requests. Phone: 202.962.3300 or 202-962.3213 (TDD). Email: accommodations@mwkog.org. For details: www.mwkog.org.

DRAFT

**MWAQC Technical Advisory Committee
Meeting Summary
March 9, 2010 10am to Noon
COG Board Room**

Present:

Elizabeth Aiken, Virginia Department of Environmental Quality
Monica Backmon, Prince William County
Cecily Beall, District Department of Environment
Tom Ballou, Virginia Department of Environmental Quality
Randy Carroll, Maryland Department of the Environment
Austina Casey, District Department of Transportation
Jessica Daniels, District Department of Environment
Bhesh Dhamala, Fairfax County Department of Health
Diane Franks, Maryland Department of the Environment
Andrew Gayne, Marine Base Quantico
Brian Hug, Maryland Department of the Environment
Jon Kinsman, Edison Electric Institute
Doris McLeod, Virginia Department of Environmental Quality
Bob Owolabi, Fairfax County Department of Transportation
Pam Parker, Montgomery County Department of Environment
Jim Ponticello, Virginia Department of Transportation
Ana Prados, Fairfax County Federation of Citizen's Associations
Howard Simons, Maryland Department of Transportation
Chris Voigt, Virginia Department of Transportation

Staff:

Mike Clifford, COG/DTP
Stuart Freudberg, COG/DEP
Jeff King, COG/DEP
Sunil Kumar, COG/DEP
Brian Lecouteur, COG/DEP
Eulalie Lucas, COG/DTP
Anne Mariani, COG/DEP
Erin Morry, COG/DTP
Jane Posey, COG/DTP
Daivamani Sivasailam, COG/DTP

Other Participants:

Gary Allen, Center for Chesapeake Communities
Russ Dickerson, University of Maryland

1. Call to Order and Review of Meeting Summary (February 9). The meeting was called to order at 10:07. The minutes of the January 12, 2010 meeting were approved with one minor change, add the word “it” to the sentence about power plants operating on high electric demand days.

2. Urban Heat Island Impacts on Air Quality

Russ Dickerson presented the results of a research study examining the impact of urban heat islands on air quality. University of Maryland has completed a research study using modeling to analyze the impact of urbanization in the metropolitan Washington region on temperatures and air quality in Baltimore. Model results show that higher temperature and ozone concentrations in Baltimore are exacerbated by upstream urbanization and that even trees planted in the suburbs or in Washington, DC can help alleviate the heat island effect of Baltimore. One of the important factors is that vegetation increases water available for evaporation which has a cooling effect. Urban heat island effects also decrease winds. The study indicates the difference between impervious surfaces and grass land is greater than the difference between grass lands and forest.

The model will now be rerun with different assumptions. Some of the interests include assessing the impact of aggressive urban tree canopy goals (20-40%), impact of increased number of green roofs, and the Bay Breeze and its impact on stagnation in Baltimore due to countering the prevailing winds. Also, the American Asphalt Institute is interested in the research and may support aerial infrared imaging to support the research.

Howard Simons suggested that information should be developed on the per acre benefit in terms of CO2 and criteria pollutants, and also, information on the benefits for different types of trees should be made available. Jon Kinsman referred members to USDA guidance on trees in the urban environment, including suggestions for strategic tree placement to increase cooling effects.

3. Local Voluntary Measures Survey and Evaluation Report

Jeff King provided an update on the local voluntary measures survey. Jurisdictions that have made commitments in the SIP voluntary bundle agreed to provide annual progress reports and to prepare an Evaluation Report every 3 years. Due to various factors, submission of annual reports has been delayed. Staff will send out an extension and will prepare the Evaluation Report once progress reports are completed.

New planning efforts for documenting progress in meeting climate and energy action plan goals was also discussed. Staff are working to develop a new process to collect information and track progress for the region's climate and energy action plan. The Energy Advisory Committee will provide assistance to guide the effort.

4. Energy Efficiency and Renewable Energy Protocol

Jeff King discussed protocol recommendations for including energy efficiency and renewable energy in SIPs. Energy efficiency and renewable energy (EERE) measures are important strategies to include in air quality and climate planning documents. The current plan is to include EERE in SIPs for the metropolitan Washington region in the voluntary bundle and as

weight of evidence. The extent of EERE impact on baseline emission projections should also be considered.

Brian Hug said that EPA is interested in having regions include EERE in SIPs for credit. He said that EPA headquarters needs to send sound guidance to the regional offices on how to approve SIPs that include these types of measures. Diane Franks suggested that alternative growth scenarios should be evaluated that consider the impacts of energy efficiency and renewable energy. Gary Allen and Howard Simons said that alternative growth scenarios could also be developed for tree canopy and for transportation/land use.

5. Emission Reduction Potential and Cost Effectiveness of Greenhouse Gas Emission Reduction Measures for the Transportation Sector

Daivamani Sivasailam presented staff analysis of the costs and benefits of greenhouse gas emission reduction measures. The 2012 climate and energy action plan adopted by CEEPC includes several TPB work tasks, including identification of cost effective measures to reduce emission of greenhouse gases. DTP staff have completed a draft analysis of a large list of measures and have recommended an approach to continue to identify possible candidate measures for analysis. The technical work will be managed by TPB's Travel Management Subcommittee. The MWAQC TAC can play a role in working with staff to evaluate the findings of the TPB-led effort. Upcoming work on identifying Reasonably Available Control Measures (RACM) for the next round of SIPs may also include consideration of multi-pollutant benefits.

6. MOVES Transition Team

Sunil Kumar provided an update on the transition to the MOVES model. This year, the interagency workgroup and COG staff will be working on developing the approach and inputs for running the MOVES model in parallel with this year's conformity analysis. By Fall, the plan is to have enough information to make decisions about how the MOVES model will be run for use in SIP development and for future conformity demonstrations. Staff will also be in a better position to advise on potential issues with meeting mobile budgets when using the new MOVES model and whether any actions will be required in 2011 to resolve.

7. Diesel Emission Reduction Projects

Jeff King discussed recent grant award for implementing diesel emission projects in the metropolitan Washington region. EPA awarded COG a grant to handle engine repowers, engine upgrades, and install exhaust controls on marine vessels operating at the Port of the City of Alexandria and for landfill equipment operating at the Prince William County landfill.

8. Other Business

Walt Seedlock said that the aerotrains are now operational so there will be fewer emissions from the mobile lounges operating at Dulles Airport. MWAA is also sponsoring a green fair event on March 17 for airline and airport employees.

Gary Allen said that he is seeking assistance to map the overlay between the Chesapeake Bay watershed and the various nonattainment areas in the mid-Atlantic.

9. State and Local Air Agency Report

Diane Franks reported for Maryland. Staff are reviewing legislative proposals. The Air Quality Control Advisory Council will meet next month. The state is also preparing for issues related to new air quality monitoring requirements given new standards for lead, SO₂, and NO₂.

Tom Ballou reported for Virginia. The Air Board will meet on March 26. Work on the CTGs has been slow, and staff are nearing completion of the regional haze SIP for submittal to EPA.

Cecily Beall said that the OTC VOC regulations for the District are in legal review. The District recently adopted 7 CTGs, including some negative declarations. The District has also been working on the regional haze SIP, including consultation with federal land managers. The District's greenhouse gas inventory is finalized and work on the climate action plan for government operations is being prepared. Stakeholder meetings are being planned.

10. Set Date for Next Meeting, Future Agenda Items, Adjourn: The next TAC meeting will be held on April 13, 2010. The meeting was adjourned at 12:07am.