

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: July 9, 2007

Time: 10 am to 12 pm

Place: COG Board Room 3rd Floor

Lunch will be provided to members at noon

DRAFT Agenda

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- 10:00 1. Call to Order and Review of Meeting Summary (June 8, 2007)**
Chairman Cecily Beall, District Department of the Environment
- 10:10 2. PM2.5 OTB/OTW Modeling Results**
Mike Kiss, Virginia DEQ, will present the modeling results for the OTB/OTW modeling scenario for PM2.5.
- 10:25 3. PM2.5 Precursors**
Sunil Kumar, COG DEP, will discuss PM2.5 precursor significance determinations.
- 10:40 4. PM2.5 SIP Planning**
Joan Rohlfs, COG DEP, will discuss options for submitting a PM2.5 attainment redesignation request to EPA. The timeline and process for nonattainment designations for the new 24-hour PM NAAQS will also be discussed.
- 10:55 5. COG Climate Change Steering Committee and Greenhouse Gas Emissions Workgroup**
Joan Rohlfs, COG DEP, will discuss the recent meetings of the Climate Change Steering Committee and the Greenhouse Gas Emissions Workgroup.
- 11:10 6. Proposed Ozone NAAQS**
Jeff King, COG DEP, will discuss EPA's proposal for lowering the NAAQS for ground level ozone.
- 11:20 7. Ozone Season Summary**
Sunil Kumar, COG DEP, will provide a summary of the ozone season to-date.
- 11:35 8. Other Business**
- 11:45 9. State and Local Air Agency Report**
- 11:50 10. Set Date for Next Meeting, Future Agenda Items, Adjourn**
Next TAC Meeting: September 11, 2007



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**MWAQC Technical Advisory Committee
Meeting Summary
May 8, 2007 10am to 12pm
COG Training Center, 1st Floor**

Present:

Tom Ballou, Virginia Department of Environmental Quality
Cecily Beall, District Department of the Environment
Tom Biesiadny, Fairfax County Department of Transportation
Randy Carroll, Maryland Department of Environment
Diane Franks, Maryland Department of Environment
Jeff Harn, Arlington County Department of Environmental Services
Brian Hug, Maryland Department of Environment
Maurice Keys, District Department of Transportation
John Kinsman, Edison Electric Institute
Sonya Lewis-Cheatham, Virginia Department of Environmental Quality
Doris McLeod, Virginia Department of Environmental Quality
John Nwoke, District Department of Environment
Bob Owolabi, Fairfax County Department of Transportation
Pam Parker, Montgomery County Department of Environmental Protection
Jim Ponticello, Virginia Department of Transportation
Bill Skrabak, City of Alexandria
Howard Simons, Maryland Department of Transportation (by teleconference)
Kanti Srikanth, Virginia Department of Transportation
Roger Thunell, Maryland Department of Environment
Alfred Titus-Glover, Prince George's County
Khoa Tran, City of Alexandria
Chris Voigt, Virginia Department of Transportation
Flint Webb, Fairfax County Federation of Citizens Associations
Mike Zamore, Maryland-National Capitol Park and Planning Commission (M-NCPPC)

Staff:

Jeff King, COG/DEP
Nabeel Keblawi, COG/DEP
Sunil Kumar, COG/DEP
Eulalie Lucas, COG/DTP (by teleconference)
Erin Morrow, COG/DTP
Joan Rohlf, COG/DEP
Daivamani Sivasailam, COG/DTP

Observers/Participants:

Olivia Achuko, District Department of Environment
Charley Baummer, Metropolitan Washington Airports Authority
Julie Crenshaw Van Fleet, AQPAC
Jude Haye, DDOT Intern

1. Call to Order and Review of Meeting Summary (May 8, 2007). Ms. Beall called the meeting to order at 10:08. The minutes of the May 8, 2007 meeting were approved with no changes.

2. PM2.5 Monitoring Data and Emission Inventory Subcommittee

Sunil Kumar discussed monitoring data for PM2.5. Design Values for 2004-2006 were calculated for both the 24-hour and annual standards. The highest annual value is 14.8 $\mu\text{g}/\text{m}^3$ at the McMillan monitor. The highest 24-hour value is 40 $\mu\text{g}/\text{m}^3$, also at the McMillan monitor. John Kinsman said that the new daily standard of 35 $\mu\text{g}/\text{m}^3$ will not be applicable for some time. Flint Webb asked if a redesignation request should be prepared based on the annual Design Value for 2004-2006. Joan Rohlf's said that such an option would require review of EPA's Clean Data Policy, and a Maintenance Plan would have to be prepared instead of an Attainment Plan, which could involve establishing different horizon years. Significance determinations for each of the PM precursors will still be required.

Flint Webb said there may be an advantage to preparing an Attainment Plan in expectation of the new PM daily standard. Brian Hug said that Maryland is party to a lawsuit against EPA regarding EPA's failure to follow the advice of the Clean Air Science Advisory Committee (CASAC) in setting a new PM2.5 annual standard.

Tom Ballou and Brian Hug discussed what new requirements would need to be addressed in a maintenance plan. A maintenance plan must project out ten years, with at least one interim year. An emission test or attainment budget test is required. The maintenance plan would be less cumbersome to prepare, especially because complex attainment modeling will not be required. Transportation conformity would still apply and mobile budgets would need to be set. Howard Simons expressed concern about new outyear budgets, and said that he needs additional information before making a decision. Tom Ballou said that OTB/OTW modeling runs have been completed but the results are not available yet. Joan Rohlf's recommended maintaining the current schedule for completing either a PM attainment SIP or a maintenance plan. However, if the maintenance plan approach is taken, decisions on outyears will be needed soon to inform inventory development. Brian Hug recommended continuing development of 2002 and 2009 inventories at this time.

In response to a question from Maurice Keys about sanctions and penalties, Doris McLeod said that the maintenance plan allows flexibility in designing, triggering, and implementing contingency measures. If the region falls back into nonattainment, contingencies would be triggered. Sanctions would not apply until after implementation of contingencies and subsequent persisting nonattainment. In that case, the region would get bumped up and an 18-month sanctions clock would start.

Bill Skrabak said that local hotspots need to be addressed. He said that the Potomac River power plant increases local PM concentrations by approximately 4 $\mu\text{g}/\text{m}^3$. He said that Virginia DEQ had said that local hotspot issues would be addressed in the SIP. He asked for clarification on how local hotspots would be addressed if the redesignation request and maintenance plan option is chosen. Julie Crenshaw Van Fleet said that one approach may be to determine which point sources cause local concentrations in excess of 35 $\mu\text{g}/\text{m}^3$, and to require controls for those facilities. Tom Ballou said that Virginia has data on emissions for point sources but not concentrations.

Sunil Kumar provided an update on the recent Emission Inventory Subcommittee meeting. Draft PM2.5 inventories for 2002 and 2009 are currently being prepared. Members also discussed PM speciation data and PM precursor significance determinations. Sunil Kumar reviewed an analysis of data on PM speciation for days where PM concentrations were greater than 35 $\mu\text{g}/\text{m}^3$. The dominant species detected were organics, sulfur, nitrates, and ammonium. He suggested that point sources of sulfates and direct PM, on-road sources of NO_x, and PM direct emissions from construction, residential wood burning, and on-road sources are the primary sources of PM emissions. Brian Hug said that a complete inventory will be developed within the next couple of months.

3. Ozone Transport Commission Annual Meeting

Brian Hug said that the recent annual meeting of the OTC was a routine meeting with few actions to report. The major action was an agreement on a statement regarding establishing a lower NAAQS for ozone, consistent with the recommendations of the Clean Air Science Advisory Committee (CASAC). In response to a question from Maurice Keys, Brian Hug said that the OTC is already involved with PM planning efforts through MANE-VU but there are no formal proposals to change the OTC charter at this time.

4. PM2.5 Control Measures

Jeff King discussed development of control measures for the PM SIP. He distributed a listing of possible control measures to reduce emissions of PM2.5. The list was developed using the master list of measures developed for the ozone SIP, with additional measures added that address sulfur, ammonia, and direct PM emissions. He said that the list of possible PM measures will be reviewed by the control measures workgroup to ensure completeness and to begin the process of developing priority measures. Flint Webb suggested that a column should be added to the table to list the affected precursors.

5. EPA Guidance: MACT Standards and VOC Regulations

Jeff King discussed the impact of recent EPA guidance on SIP emission inventories. EPA issued two separate guidance memoranda, one addressing new MACT standards and one involving new regulatory requirements for AIMS, consumer products, and aerosols. A quick assessment of the potential impacts on the emissions inventories was based on a preliminary review of the guidance documents and discussion with the state air agencies. The MACT standards address control requirements for a long list of stationary sources. Most of the point sources listed are not found in the Washington region so there will be a limited impact, if any. The pending EPA regulations on AIMS and consumer products adopts the current OTC model rule requirements, so there will be no incremental benefit from the new federal action. There may be some minor impacts from the pending federal regulation on aerosols, more work is needed to assess the impact on the emission inventory.

6. COG Climate Change Steering Committee

Joan Rohlfs provided an update on the Climate Change Steering Committee (CCSC). Nancy Floreen was named Chair and the meetings of the CCSC meetings will alternate with MWAQC. The CCSC will meet next on June 27, as such there will be no MWAQC meeting in June. One of the first tasks is to develop a regional greenhouse gas inventory. COG DTP developed an inventory for on-road mobile sources using the Travel Demand Model and EPA's MOBILE6 model. Emissions from transportation are predicted to increase significantly through 2030 from increased VMT and lower average fuel economy predicted by the model. DTP will be evaluating other scenarios, such as adoption of CAL LEV II. Joan Rohlfs said that a climate change workgroup is being established to support activities of the CCSC, particularly for inventory development tasks. The workgroup will advise the CCSC on the appropriate base year, future year, reduction target, and inventory methodology. Local inventory efforts will be reviewed and documented. A survey is being circulated to collect information on the available local greenhouse gas inventories. Members of the workgroup will be primarily MWAQC TAC representatives, however, additional experts are anticipated, especially local energy and waste managers.

In response to questions, Tom Ballou confirmed that Virginia has joined the Climate Registry. He explained that the Climate Registry is a system to standardize and certify emission reduction offsets.

7. Ozone Season Summary

Sunil Kumar provided a summary of the ozone season to-date. There were three days where ozone concentrations exceeded the 8-hour standard, May 26, May 30, and May 31. The highest concentration was 91 ppb at the Prince George's Equestrian Center on May 26. The highest PM 2.5 concentration detected was 32 µg/m³ on May 26.

Tom Biesiadny said that the recent error in reporting the ozone forecast caused serious problems for the Northern Virginia transit providers. Joan Rohlfs explained that the correct forecast for June 8 was code yellow, but due to server and data entry issues the automatic email alert system sent out a forecast of code

orange. COG staff contacted the transit providers in an attempt to clarify the forecast, but apparently confusion persisted. She said that the COG and Clean Air Partners websites did contain the correct forecast.

8. State and Local Air Agency Report

Tom Ballou reported for Virginia. On June 1, the EPA published its final approval of the redesignation requests for Richmond and Hampton Roads. The Mirant Potomac River Generating Station received a new State Operating Permit that places an overall cap on SO₂ emissions of about 3,800 tons per year. On the same day, Virginia DEQ received a summons from Circuit Court of the City of Richmond pertaining to a petition for Appeal on behalf of the Mirant Potomac River Generating Station (PRGS) claiming that the case decision is unlawful.

Bill Skrabak said that two options were being considered regarding the Mirant Potomac River Generating Station -- a Consent Decree and a Permit option. The City of Alexandria supports the permit option. The Department of Energy testified before the Virginia Air Pollution Control Board that the reliability issues will no longer be a factor once the new 230kV lines are operational.

Diane Franks reported for Maryland. Both the Consumer Products and PFC rules are in the final stages. MDE received some comments on the Consumer Products rule so is working with the OTC to revise the model rule to respond to the comments. There was a stakeholder meeting on May 25 to discuss the industrial adhesives rule. Comments included concerns about reporting requirements and technical issues with the proposed requirements for roofing products. The legislature passed the CAL LEVII bill. On July 18, the emergency Healthy Air Act regulation will expire, so MDE is working on a final Healthy Air Act implementation regulation. Brian Hug said that the ozone SIPs are due to EPA next Friday. There is also activity in Maryland to start working on climate change issues, as a result of RGGI, the Climate Change Commission in Maryland, and the new COG Climate Change Steering Committee.

Cecily Beall reported for the District. The ozone SIP is being prepared for delivery to EPA. The Consumer Products rule has been published and the public comment period is open.

9. Set Date for Next Meeting, Future Agenda Items, Adjourn:

The next TAC Meeting will be held on September 11, 2007. The meeting was adjourned at 12:00.