

# Metropolitan Washington Air Quality Committee

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## TECHNICAL ADVISORY COMMITTEE

**Date: July 11, 2006**

**Time: 10 am to 12 pm**

**Place: Rooms 4/5, 1st 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 9, 2006)**  
*Chairman Jim Sydnor, Virginia Department of Environmental Quality*
- 10:10 2. Emissions Inventory: Update**  
*Brian Hug, MDE, and Sunil Kumar, COG DEP, will discuss the completed projection inventory for 2009 for the 8-hour Ozone SIP.*
- 10:25 3. Conformity Subcommittee**  
*Stan Tracey, DC DOE, will report on the Conformity Subcommittee meeting held on July 7.*
- 10:40 4. Attainment Modeling Subcommittee: Update**  
*Tom Ballou, VDEQ, will report on attainment modeling and weight of evidence.*
- 10:50 5. SIP Schedule: Update**  
*Joan Rohlfs, COG DEP, will discuss the SIP schedule.*
- 11:00 6. Control Strategy: Action**  
*Jeff King, COG/DEP, will present a proposed control strategy for the 8-hour ozone SIP to recommend to MWAQC. A draft list of potential contingency measures will also be discussed.*
- 11:25 7. Local Government Initiatives Subcommittee: Update**  
*Jeff King, COG DEP, will discuss recommended new measures being considered by the Local Government Initiatives Subcommittee. A report on the MWAQC work session held on June 28 will also be provided.*
- 11:40 8. Ozone Season Summary: Report**  
*Sunil Kumar, COG/DEP, will report on the ozone season to date.*
- 11:50 9. State and Local Air Agency Reports**
- 11:55 10. Set Date for Next Meeting, Future Agenda Items, Adjourn:**  
Next TAC Meeting: September 12, 2006

**DRAFT**

**MWAQC Technical Advisory Committee  
Meeting Summary  
June 9, 2006 10am to 12pm  
Teleconference/DEP Conference Room**

**Present (by Teleconference):**

Tom Biesiadny, Fairfax County Department of Transportation  
Randy Carroll, Maryland Department of Environment  
Kipp Coddington, Greater Washington Board of Trade  
Deirdre Elvis-Peterson, District of Columbia Department of Environment  
Diane Franks, Maryland Department of Environment  
Jeff Harn, Arlington County Department of Environmental Services  
Brian Hug, Maryland Department of Environment  
Sonya Lewis-Cheatham, Virginia Department of Environmental Quality  
Doris McLeod, Virginia Department of Environmental Quality  
Jim Ponticello, Virginia Department of Transportation  
Arnold Solomon, Mirant  
Kanti Srikanth, Virginia Department of Transportation  
Jim Sydnor, Virginia Department of Environmental Quality  
Ram Tangirala, District of Columbia Department of Health  
Julie Thomas, National Park Service  
Stanley Tracey, District of Columbia Department of Environment  
Didian Tsongwain, Prince George's County Department of Environmental Services  
Flint Webb, Fairfax County Federation of Citizens Associations  
Carl Winstead, Fairfax County Department of Transportation

**Present:**

Julie Crenshaw Van Fleet, AQPAC  
Maurice Keys, District of Columbia Department of Transportation  
Mike Zamore, Maryland National Capital Parks and Planning Commission

**Staff:**

Mike Clifford, COG/DTP  
Jeff King, COG/DEP  
Sunil Kumar, COG/DEP  
Joan Rohlfs, COG/DEP  
Ben Wauer, COG/DEP

**Observers/Participants:**

Charley Baummer, Metropolitan Washington Airports Authority  
Geri Nicholson, Sage Energy Consulting  
Walt Seedlock, Metropolitan Washington Airports Authority

**1. Call to Order and Review of Meeting Summary (May 12, 2006).** Mr. Sydnor called the meeting to order at 10:05. The minutes of the May 12 meeting were approved with no changes.

**2. Update on 2002 Emissions Inventory Submission**

Sunil Kumar discussed the status of the 2002 Emission Inventory Submission to EPA. He said that the ozone season day and annual emission inventory for 2002 is due on June 15. The annual mobile inventory is still being finalized. There will be an Emission Inventory Subcommittee call to discuss remaining issues. In response to a question from Jim Sydnor, Brian Hug said that the public comment on this base year inventory submission can be handled later as part of the overall SIP process.

Sunil said that MDE decided to include Andrews Air Force Base as a quasi-point source in the inventory. He asked if a decision was made on how to handle Washington National and Dulles airports. Tom Ballou said that Virginia DEQ has decided not to handle the airports as quasi-point sources.

Ram Tangirala asked about the advantage of including airports as a quasi-point source. Charley Baummer and Walt Seedlock asked whether such an approach is needed given all of the applicable emission values are already in the inventory. Brian Hug said that having all of the airports emissions reported together in the SIP helps with General Conformity determinations.

**3. Airport Emission Inventory Report**

Charley Baummer provided an overview of the emission inventory report for Washington National and Dulles airports. URS Corporation was hired to prepare the airports inventories for 2002, 2008, and 2009. The inventory covers aircraft, ground service equipment, and mobile emission sources at the airport facilities, but does not cover the stationary sources at the airport which are operated under state permit. Charley said that emission estimates for ozone season day and average annual day are slightly different due to variations in inputs such as mixing height and temperature, which affect aircraft performance factors. In aggregate for both airports, emissions are 2 tpd VOC and 7.3 tpd NO<sub>x</sub> in 2009. The majority of emissions are from aircraft and GSE, which are owned by the airlines.

Ram Tangirala and Flint Webb asked about the mixing height input used for emission calculations and whether issues about the default value versus the value used in the EIS were resolved. Ram Tangirala and Flint Webb said that it is inappropriate to use the lower mixing height value for the SIP inventory. Joan Rohlf's said that the decision by MWAA to use the lower mixing height instead of the default value also causes inconsistencies with the approach used at BWI. Diane Franks said that MDE evaluated the impact of the lower mixing height on emissions and found that the difference was relatively minor, amounting to a difference of approximately 2 percent. Diane Franks said that the states now have new upper air profilers that can provide mixing height data on an hourly basis, so more refined mixing height data should be available for use in the future. She also said that it may be more important to focus on encouraging the airports authorities to work with the airlines to reduce emissions rather than focus on the mixing height issue. Flint Webb asked to review the calculations done by MDE on the impact of the lower mixing height input. Sunil Kumar confirmed that the MWAA reported emissions have been incorporated into the draft SIP inventories.

#### **4. Ozone Transport Commission: Annual Meeting**

Joan Rohlf provided a summary of the OTC annual meeting held on June 6-7, 2006. At the meeting, the OTC signed MOUs with agreements to adopt four model rules, including industrial adhesives and sealants, consumer products, portable fuel containers, and heavy duty diesel engine chip reflash. In addition to the model rules, the OTC encourages states to adopt additional measures on an as-needed basis. The states are also continuing work on development of a multi-pollutant measure for electrical generating units as well as a program to reduce emissions from peaking units on high electricity demand days.

Tom Ballou said that Virginia did not agree to adopt a mandatory chip reflash program. Virginia also abstained from the multipollutant vote because Virginia law prohibits the air agency from adopting a regulation that is more restrictive than EPA's Clean Air Interstate Rule. Jim Sydnor said that Virginia can restrict trading of allowances in nonattainment areas only, but cannot reduce allocations to particular sources.

Jim Ponticello asked why the Architectural and Industrial Maintenance Coatings Phase II Model Rule was not in the OTC MOU. Tom Ballou said that the benefits of the model rule would not be available until after 2009.

Flint Webb asked whether the model rules would be adopted across the OTR. He also asked about the status of the mid-west collaborative. Tom Ballou said that the issue needs to be discussed at the Attainment Modeling Subcommittee. Jim Sydnor said that the mid-west initiative has lost some of its initial momentum.

Kanti Srikanth recommended that factsheets be prepared on the OTC model rules for discussion at MWAQC.

#### **5. Control Measures: Update**

Jeff King said that the OTC agreement will help direct the next steps of the control strategy development. Jim Sydnor said that now that there is agreement on the model rules, benefits of the rules can be determined. Jim Sydnor said that before the IAQC meets in July, the TAC needs to consider and reach agreement on a menu of controls. He said that the three state air agencies should work with COG staff to develop the proposal. Kanti Srikanth said that the proposal should be a two-part list, one for attainment and another for contingency.

Diane Franks said that it will be challenging to complete the regulatory process for each of the initiatives in time to have a complete SIP. Jim Sydnor said that Virginia will start the regulatory process soon and it will take 18 months to 2 years to complete. Virginia is considering adopting the phase II consumer products and portable fuel container rules, as well as the new industrial adhesives and sealants rule. Virginia will also consider the institutional, commercial, and industrial boiler proposal. Ram Tangirala said that the model rules primarily reduce VOC emissions and that more NO<sub>x</sub> reductions may be needed.

Jeff King said that in addition to control measures needed for attainment, EPA also requires that the region have a significant level of contingency measures already in place ready for implementation in the event of an RFP or attainment failure in 2008 or 2009. The control measures workgroup has not yet begun to identify a set of contingency measures. Approximately 12 to 15 tpd of reductions will be required to meet the contingency requirement.

## **6. Attainment Modeling Subcommittee: Update**

Mike Kiss reported on attainment modeling. Virginia DEQ performed a new modeling run called 2009 Future Control Case #5. The adjustments made to the previous Future Control Case #2 were as follows. First, the 2009 Maryland point source values were increased by 40 tpd because the EPA IPM model runs were overly optimistic in predicting controls. Case 2 had initial MDE estimates for the EGU sector in Maryland which were based on blanket percentage reductions across all units. Case 5 contained the actual 2009 values used by the University of Maryland to model the benefits of the Clean Power Rule which were based on unit by unit evaluations. Second, the Virginia point source estimates were lowered by about 11 tpd to reflect known controls installed at Virginia facilities. Third, VOC emissions in Virginia were lowered to reflect adoption of the OTC model rules in 2005. Finally, there was a small increase in emissions projections for the point sources in the District. The results of the model run indicate that the Design Value for the Arlington monitor still exceeds the standard in 2009.

Mike Kiss said that once the control strategy is determined it will take approximately 3-4 weeks to run the model. He also said that the weight of evidence analysis needs to be considered, and that there is a meeting to discuss the topic scheduled for June 15.

Jim Ponticello asked whether the boundary conditions were final. Mike Kiss said that it is important that commitments be known with certainty before the controls being adopted in the mid-west and other states are reflected in the modeling runs. Tom Ballou said that VISTAS and the other RPOs are finalizing the modeling inventories. In response to question from Howard Simons, Tom Ballou said that the updated inventories might be available in mid to late July. Howard Simons said it is important that modeling results with the updated inventories be available prior to the IAQC meeting on July 17. Brian Hug said that the updated information will not be available before the IAQC meeting. Tom Ballou said that the SIP may not contain a total attainment demonstration so weight of evidence will become an important component of the SIP. Jim Sydnor said that achieving additional reductions of greater than 20 tpd to demonstrate total attainment may not be possible. Local measures may be a key component of the weight of evidence analysis.

## **7. State RACT Update**

Doris McLeod, Brian Hug, and Stan Tracey discussed the state RACT recertification process. All three states must submit a RACT SIP to EPA in September for all CTG and major non-CTG sources. The states are not expecting significant additional reductions. Because the area was designated as severe nonattainment for the 1-hour ozone standard and the point source control threshold was reduced to 25 tons per year, most sources have already been covered. In most cases the existing RACT regulations are satisfactory, and the process will mostly involve recertification. Diane Franks said that California is receiving comments about RACT, and that it may be important to not rely on EPA's CTG as a basis for the certification. All three states are working on the RACT recertification in July, with the intent of public hearings, and submittal of the RACT SIP in September.

## **8. Local Government Initiatives Subcommittee: Update**

Jeff King provided an update on the activities of the Local Government Initiatives Subcommittee. Jurisdictions that made voluntary commitments in the 1-hour ozone SIP submitted annual reports that document progress for 2005. The results indicate that the region has met or exceeded its voluntary bundle commitments in all cases. In terms of new local measures, Jeff King said that jurisdictions are expressing interest in renewable energy purchases to offset emissions from power plants, and in diesel retrofit strategies particularly on public fleets, including school buses. Debra Jacobson said that she could provide some assistance in estimating the potential benefits of Renewable Portfolio Standards and LED traffic signal retrofits.

## **9. Ozone Season Summary: Report**

Jen Desimone reported on the ozone season to date. An air pollution episode occurred between May 29 and June 1. There was a slow moving high pressure system over the area and peak temperatures were greater than 90 degrees Fahrenheit. The peak 8-hour ozone concentration was 102 ppb on May 30 and 31. Twelve monitors exceeded the NAAQS on May 31. The event involved both local and transported pollution. Ozone concentrations at elevated sites were relatively high, reaching approximately 90 ppb on May 31 at the Shenandoah National Park site, indicated regional transport. There was also some recirculation of pollution along the I-95 corridor.

## **10. State and Local Air Agency Reports**

Jim Syndor said that the CAIR rule in Virginia is still in Executive Review. The rule should be released for public comment in the next 4-6 weeks.

The District and Maryland had nothing to report.

## **11. Other Reports**

Joan Rohlfs introduced Geri Nichols of Sage Energy Consulting to discuss the proposal to create a Capital Region Consortium for Climate Protection. COG's Energy Policy Committee staff George Nichols, working with Geri Nichols under contract, developed and submitted a proposal to EPA to form a Capital Region Consortium for Climate Protection. If funded, the consortium would be managed by the EPAC with close coordination with MWAQC as needed. The consortium would endeavor to develop greenhouse gas inventories, characterize resources at risk, identify and evaluate mitigation policy, and conduct outreach. The efforts would be coordinated with the state climate action plans as well as COG's regional comprehensive energy management plan. The award notification is expected by October 2006. Jim Syndor asked that the proposal be discussed at the Executive Committee to determine if MWAQC should be briefed.

**12. Set Date for Next Meeting, Future Agenda Items, Adjourn:** Next TAC Meeting: July 11, 2006.