

Metropolitan Washington Air Quality Committee

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TECHNICAL ADVISORY COMMITTEE

Date: May 12, 2006

Time: 10 am to 12 pm

Place: COG Board Room, 3rd Floor

Lunch will be provided to members at noon

DRAFT Agenda

- 10:00 1. Call to Order and Review of Meeting Summary (April 14, 2006)**
Chairman Jim Sydnor, Virginia Department of Environmental Quality
- 10:10 2. Emissions Inventory: Update**
Brian Hug, MDE, will discuss the status of emission inventories for 2008 and 2009.
- 10:25 3. Attainment Modeling Subcommittee: Update**
Mike Kiss, VDEQ, will report on attainment modeling.
- 10:40 4. Preliminary Reasonable Further Progresss (RFP) Calculations**
Sunil Kumar, COG/DEP, will present preliminary RFP calculations for 2008.
- 10:55 5. Local Government Initiatives Subcommittee: Update**
Mary Richmond, Montgomery County, will provide an update on the activities of the Local Government Initiatives Subcommittee.
- 11:10 6. Control Workgroup: Update**
Jeff King, COG/DEP, will provide an update on the activities of the control measures workgroup.
- 11:25 7. State and Local Air Agency Reports**
- 11:40 8. Plug-In Hybrids: Video**
Jeff King, COG/DEP, will show a video on plug-in hybrid technology and discuss its future applications in the DC region.
- 11:55 9. Set Date for Next Meeting, Future Agenda Items, Adjourn:**
Next TAC Meeting: July 14, 2006

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**MWAQC Technical Advisory Committee
Meeting Summary
April 14, 2006 10am to 12pm
DEP Conference Room and Teleconference**

Present by teleconference:

Tad Aburn, Maryland Department of Environment
Tom Ballou, Virginia Department of Environmental Quality
Randy Carroll, Maryland Department of Environment
Kipp Coddington, Greater Washington Board of Trade
Diane Franks, Maryland Department of Environment
Barbara Hardy, Fairfax County Department of Environmental Services
Jeff Harn, Arlington County Department of Environmental Services
Brian Hug, Maryland Department of Environment
Doris McLeod, Virginia Department of Environmental Quality
Jim Ponticello, Virginia Department of Transportation
Mary Richmond, Montgomery County Department of Environmental Protection
Arnold Solomon, Mirant
Jim Sydnor, Virginia Department of Environmental Quality
Ram Tangirala, District of Columbia Department of Health
Didian Tsongwain, Prince George's County Department of Environmental Resources
Stanley Tracey, District of Columbia Department of Health
Flint Webb, Fairfax County Federation of Citizen's Associations

Present:

Maurice Keys, District of Columbia Department of Transportation
Kanti Srikanth, Virginia Department of Transportation
Julie Thomas, National Park Service
Carl Winstead, Fairfax County Department of Transportation

Staff:

Mike Clifford, COG/DTP
Mike Freeman, COG/DTP
Jeff King, COG/DEP
Sunil Kumar, COG/DEP
Eulalie Lucas, COG/DTP
Joan Rohlfs, COG/DEP

Observers:

Charley Baummer, Metropolitan Washington Airports Authority (by teleconference)
Julie Crenshaw, AQPAC
Debra Jacobson, George Washington University
Gary Koerber, Department of Defense REC Region III

1. Call to Order and Review of Meeting Summary (March 10, 2006). Mr. Sydnor called the meeting to order at 10:07. The minutes of the March 10, 2006 meeting were approved with one change. Barbara Hardy was in attendance and should be added to the summary.

The agenda items were reordered to accommodate scheduling. The item "Emission Inventory Update" was moved to the beginning of the agenda.

2. Emissions Inventory: Update

Brian Hug discussed development of SIP emission inventories. Recent efforts have focused on completing the 2008 and 2009 inventories for the ozone SIP and on developing an annual mobile inventories. There were minor revisions to the 2008 point source inventories provided by Maryland and the District. COG staff generate inventories of the non-road sector. Staff are discussing potential changes to the area source inventory, specifically addressing gasoline sales growth and industrial adhesives. Maryland is working on developing a line item inventory for Andrews Air Force Base and Cove Point. Two major decisions were recently made regarding mobile inventories. First, the states agreed to use the VIN decoder to characterize fleets using DMV registration data. Also, the District had proposed that the diesel sales fraction be based on combining the data for all three jurisdictions. Estimates for diesel sales fraction for the District will be based on a combination of D.C. and Maryland. Second, the states agreed to use a seasonal approach to estimate annual mobile-sector PM emission inventories. The agreement for the District was conditional. Ram Tangirala said that the District would fully approve the seasonal approach after review and acceptance of data on variability of VOC emission rates. Ram Tangirala also said that staff should not trivialize the differences in total overall emissions between the seasonal and monthly approach. On a percentage basis the difference may be small. However, on an absolute basis, the difference is not insignificant.

The group discussed the inputs to be used for reflecting rates of chip reflash. For 2002, D.C. and Maryland will use 11% compliance rate and Virginia will use 25%. For RFP calculations, there will be no change in the compliance rate. For the 2009 attainment inventory, only Maryland will show 90 percent compliance rate reflecting the decision to pursue a mandatory program in Maryland. Virginia and the District are still considering whether to adopt a mandatory chip reflash regulation. Ram Tangirala asked that the impact of the chip reflash program be estimated as a line item. There is a May 10 NESCAUM meeting in Philadelphia to discuss the chip reflash regulatory initiative.

Debra Jacobson volunteered to provide recommendations and information regarding the potential to incorporate energy efficiency and renewable energy measures into the baseline emissions. Brian Hug said that he could add the topic to the next Emission Inventory Subcommittee call.

Brian Hug said that the next major task to be handled is the June submittal of the 2002 inventory. COG staff are also tracking a variety of smaller tasks with a list of action items.

3. Attainment Modeling Subcommittee: Update.

Tom Ballou provided an update on attainment modeling. He said that the Attainment Modeling Subcommittee met in April. The group agreed to have the University of Maryland and DEQ modeling centers move forward in parallel. University of Maryland would evaluate future control case scenarios assuming the OTC modeling inputs. Virginia DEQ would evaluate

scenarios using the inputs associated with Adjusted Base Case 2 (i.e., state level assessment of impact of CAIR on power plant controls). The group also agreed that the future control case scenario was best evaluated using controls applied to both the local areas as well as the entire OTR. It is believed that modeling only the local area controls will not show much, if any, impact on ozone concentrations.

Flint Webb asked whether it was the consensus of the attainment modeling group that there is nothing that can be done at the local level only, above and beyond CAIR or new EGU controls, that would significantly impact the attainment modeling results. Tom Ballou said yes. Flint Webb suggested that this result should be shared with Congress, with some effort made to demonstrate that a much larger 20+ state approach such as the State Collaborative will be necessary. Tom Ballou said that he is not ready to make such a statement. In response to a question from Flint Webb, Tom Ballou said that the OTR only includes Northern Virginia. Flint Webb suggested that a broader regional strategy could include counties upwind of the Washington, D.C. region. Tad Aburn said that the OTC and state air commissioners have been quite active discussing the issue of broader regional approaches being needed for the region to attain. He said he is hopeful that a federal solution will be developed. Jim Sydnor said that it is more likely that the OTC will provide a solution.

Future control case modeling results will not be available for the May TAC meeting. The goal will be to complete the runs by June.

4. Control Workgroup: Report on Strategy for Attainment

Jeff King, COG/DEP, discussed control strategy information developed by the Control Measures Workgroup for the Attainment Modeling Subcommittee. As requested at the March 10 Technical Advisory Committee meeting, the workgroup convened a meeting on March 23, 2006 to discuss recommendations for a set of control strategies to advance for potential use in attainment modeling sensitivity runs. Staff decided on a list of measures to advance and provided estimates of percent reduction off of the source category 2009 controlled emissions values for each relevant SCC code. The information was based on emission reduction estimates for selected measures on the TAC priority list and the draft 2009 emission inventory values. A measure was selected if it was considered feasible to implement and provided reduction in emissions of either NO_x or VOC during the ozone season. Jeff King also reviewed various possible future control case scenarios being considered by the Attainment Modeling Subcommittee.

The group discussed the status of the OTC measures evaluation. It was agreed that the OTC is working to update its list of measures and is revising emission reduction estimates. Staff agreed to obtain the latest estimates from OTC for use in the future control case modeling scenarios. Jim Ponticello asked that the table be revised to include absolute tonnage and not just percent reduction.

It was agreed that the emission reduction estimates as applied in either the local region or across the OTR may vary and should be based on the OTC analysis.

Flint Webb expressed concern about developing an attainment strategy and SIP that will rely on actions taken by other jurisdictions across the OTR. Jim Sydnor said that this issue will need to

be addressed as part of the OTC process. Tad Aburn said that the issue is also being discussed by the State Collaborative.

Charley Baummer asked about the basis of the emission reduction estimate for the airports measure. Jeff King said that he would provide the information. Ram Tangirala said that the reductions are for 2009 and represent beyond-on-the-way controls. Flint Webb said the percent reduction for the airports measure seems like a difficult reduction target for the airports authority to meet. Ram Tangirala agreed and said that the situation is not unique to the aviation sector.

5. Healthy Air Act & MD Clean Power Rule

Tad Aburn reported on the final actions of the Maryland Legislature and the effect of Maryland Clean Power Rule. He provided a press release from the Governor's office announcing that the Clean Power Rule will be published in the Maryland Register. The Governor signed the Healthy Air Act recently adopted by the General Assembly. During the legislative session major amendments were introduced to make the requirements of the Healthy Air Act and the Clean Power Rule comparable. Comparing the bill and the proposed regulation, the NO_x and mercury caps are the same. Phase I of the SO₂ caps are slightly different. Unlike the Clean Power Rule, the Act includes provisions for CO₂, and requires Maryland to join the Regional Greenhouse Gas Initiative (RGGI) in 2007. Tad Aburn provided a one page summary table that compares the requirements of the legislation and the proposed rule. MDE will continue to advance the Clean Power Rule and will make any necessary amendments to make it consistent with the requirements of the Healthy Air Act. MDE expects the rule to be finalized in the June/July timeframe. Tad Aburn said that the requirements of the rule will be more stringent than the CAIR requirements, and that the rule will be one of the most stringent on the east coast. The rule will allow selling of credits, but utilities will not be allowed to purchase credits to meet their cap.

6. Conformity Subcommittee

Ram Tangirala discussed the Conformity Subcommittee call on April 11 and the states' decisions on mobile inputs to the SIP inventories. Ram Tangirala said that the TPB Technical Committee heard a briefing on the Transportation for Livable Communities initiative. He recommended that the region investigate this program further. In terms of technical tasks to estimate mobile emissions, he said that the Cooperative Forecast Round 7 will be updated to reflect land use changes associated with the new baseball park in the District. There should be minimal impacts on VMT and emissions. The updated Round 7A cannot be used for SIP or conformity purposes until it is officially adopted by the COG Board. Ram Tangirala also said that the Metro transit constraint will remain capped at 2010 levels for the outyears. The constraint will not be lifted until sufficient funding is committed. In response to a question from Flint Webb, Mike Clifford said that the Metrorail to Dulles project is part of the long-range plan, but won't have an impact until after 2010. Jim Sydnor said that the Virginia 4-year I/M exemption will not become effective until the SIP is approved by EPA.

7. Preliminary Reasonable Further Progress (RFP) Calculations

Sunil Kumar discussed preliminary RFP calculations. He said that the 2002 base year emissions are complete. He still requires 2008 emissions information for point and on-road sources. The on-road inventory can be completed now that decisions have been made on handling of vehicle registration data and diesel sales fractions. The targets cannot be calculated until the 2008

emission inventory is complete. The RFP inventories are due to EPA along with the SIP in June 2007.

8. Local Government Initiatives Subcommittee: Update

Mary Richmond provided a brief update on the activities of the Local Government Initiatives Subcommittee. She said that the local jurisdictions are working to complete reporting forms requested in March. One of the efforts is to identify what programs are in county budgets and which contract vehicles may be able to be bridged with other jurisdictions. She said that attendance at the meetings has been low. Jim Sydnor asked that the MWAQC be informed at the next meeting so that local officials can encourage more participation. Debra Jacobson said that she would be able to provide some limited technical assistance in estimating the emissions benefits of renewable energy strategies. Jim Sydnor said that the local initiatives may be an important part of weight-of-evidence.

9. State and Local Air Agency Report

Ram Tangirala said that the District is working on its CAIR implementation rule. The District plans to complete the rule by the end of the year. He said that the District continues to address issues raised by EPA over the NSR rule. He said that the District would like to coordinate with Maryland and Virginia on the Conformity SIP.

Diane Franks said that most of the recent efforts in Maryland involved the Clean Power Rule. MDE will meet with EPA for a mid-year review soon.

Jim Sydnor said that Virginia just completed its mid-year review with EPA.

Julie Crenshaw said that the Virginia legislature is considering an amendment to the Clean Smokestacks Act provided by Governor Kaine. The amendment addresses the issue of trading of mercury emission allowances. She agreed to distribute the text of the amendment.

Joan Rohlfs said that there will be an MWAQC work session on April 26. She said that daily air quality forecasts will begin on May 1.

10. Set Date for Next Meeting, Future Agenda Items, Adjourn: Next TAC Meeting: May 12, 2006.