

8-HOUR OZONE STANDARD CONFORMITY ASSESSMENT

Supplement to the Air Quality Conformity Assessment of the 2004 Constrained Long Range Plan Amendments and FY2005-2010 Transportation Improvement Program

INTRODUCTION

This memo documents the results of the 8-hour ozone standard air quality conformity assessment of the 2004 Constrained Long Range Plan (CLRP) and the FY2005-2010 Transportation Improvement Program (TIP). This supplements the technical report, Air Quality Conformity Determination Of The 2004 Constrained Long Range Plan And The FY2005-2010 Transportation Improvement Program For The Washington Metropolitan Region (November 17, 2004), which addressed carbon monoxide and the 1-hour ozone standard. As assessment criteria for the 8-hour standard include the analysis of a 2010 forecast year in addition to the milestone years previously analyzed for the 1-hour standard (2005, 2015, 2025 and 2030), technical methods are consistent with that earlier work and documentation for this supplemental analysis simply adds the 2010 forecast year results to those obtained in the November 17, 2004 report. Specifically, the land activity, travel, emissions factor and mobile source emissions data obtained in that work are reported here together with the 2010 results to produce a comprehensive, stand-alone report for the 8-hour conformity assessment.

BACKGROUND

On April 15, 2004 the Environmental Protection Agency (EPA) designated the Washington, DC-MD-VA area “moderate” nonattainment for the 8-hour ozone standard. The 8-hour ozone standard, 0.08 parts per million (ppm), averaged over eight hours, replaces the 1-hour standard of 0.12 ppm, measured in hourly increments, that has been in place since 1979.

On July 1, 2004 the EPA published the final rule for the transportation conformity under the new 8-hour ozone standard. For the Washington, DC-MD-VA non-attainment area the 8-hour non-attainment boundary is smaller than the 1-hour boundary, since Stafford County has been removed from the Washington non-attainment area for the 8-hour standard. In these circumstances EPA’s conformity rule provides an option for conducting a conformity analysis prior to the setting of new mobile budgets under the 8-hour standard; the approach allows using the existing 1-hour budgets, retaining Stafford County in both the budgets and mobile emissions estimates. The TPB, with concurrence from the Metropolitan Washington Air Quality Committee (MWAQC), opted to perform the 8-hour conformity analysis in this manner. Correspondence between the Transportation Planning Board (TPB) and MWAQC, relating to this, is included as Attachment A in this report.

The 8-hour ozone standard for a “moderate” area requires an analysis of the 2010 attainment year, in addition to the milestone years covered under the 1-hour conformity assessment. The region must demonstrate, by June 15, 2005, that the plan and program conform to the new 8-hour requirements or suffer a lapse. Because the conformity requirements for this analysis were not specified when COG/TPB staff developed the original scope of work for the air quality conformity assessment of the 2004 CLRP and the FY2005-2010 TIP, a supplemental work plan

was developed and approved. This scope of work is included as Attachment B.

WORK ACTIVITIES

Technical work activities for the supplemental conformity assessment of the 2004 CLRP and FY2005-2010 TIP included the preparation of volatile organic compound (VOC) and nitrogen oxide (NO_x) emissions inventories for the 2010 forecast year. Consistent with the analysis of the 2005, 2015, 2025, and 2030 forecast years in the full report, staff used the following technical inputs for this analysis: Round 6.4A Cooperative Forecasts; the Version 2.1D Travel Demand Model utilizing the new project submissions, and reflecting updated transit service and higher transit fares recently enacted by several transit operators in the region; EPA's Mobile6.2 Emissions Factor Model; and a refined Mobile Emissions Post-Processor using latest travel demand and mobile emissions planning assumptions. This report presents the results of the supplemental conformity analysis, as follows.

2010 Network Inputs

Because the development of a 2010 network was not anticipated when COG/TPB staff solicited the original inputs for the 2004 CLRP and the FY2005-2010 TIP, TPB staff requested that the implementing agencies review inputs to ensure the accuracy of project completion dates for 2010. This review resulted in the development of an updated conformity table that shows projects with completion dates between 2006 and 2010. This table, shown as Attachment C, was reviewed by the TPB Technical Committee, and approved by the TPB at its October 20, 2004 meeting. The initial conformity analysis of the 2004 CLRP and FY2005-10 TIP (1-hour ozone standard) included tests of two different alignments (a master plan and a northern alignment) of the Intercounty Connector (ICC) in Maryland. Prior to the adoption of the CLRP / TIP by the TPB in November, MDOT selected the master plan alignment as the 'placeholder' for subsequent planning purposes (see MDOT's letter in Attachment D). Accordingly, the networks applied in this supplemental conformity assessment consisted of only the ICC master plan alignment.

Land Activity Forecasts

On September 8, 2004 COG's Metropolitan Development Policy Committee approved Round 6.4A Cooperative Forecasts to be used for testing purposes in analysis of the CLRP and TIP. Consistent with the 1-hour conformity assessment, staff applied these land activity forecasts in the travel forecasting process for 2010 conditions. The Round 6.4A data reflect not only the forecast small area land use distributions throughout the Washington area, but also the latest planning assumptions for areas outside the Washington region. For example, the Baltimore land use input to Round 6.4A reflects the Baltimore Metropolitan Council's 'Round 6' adopted figures, whereas their previous input to the COG Round 6.3 forecasts was their 'Round 5D' figures.

Travel Modeling Process

Using the Version 2.1D model, COG/TPB staff prepared travel demand forecasts for each of the required forecast years. Exhibit 1 presents the geographic areas for modeling and for non-attainment reporting purposes. Exhibit 2 presents the resulting transit trips, vehicle trips, and

vehicle miles traveled (VMT) results through time for each conformity analysis year. Exhibit 3 presents the VMT statistics in bar chart form, showing the 2010 estimates as well as the previously developed forecast year estimates. The chart also compares the estimates to last year's totals for each forecast year to illustrate the changes in travel demand attributable to use of the revised model. VMT values are seen to be about 6 to 7 percent lower with the latest model, consistent with the base year 2000 model validation results.

Emissions Factors

COG/DTP staff, in conjunction with COG Department of Environmental Programs staff and with the consultant assistance of E.H. Pechan and Associates, developed the motor vehicle emissions factors through the use of EPA's Mobile6.2 emissions factor model. (See Appendix D of the November 17, 2004 technical report for model inputs and other details of the emissions factor development.) These rates for each pollutant, shown using Montgomery County freeway data as an illustration in Exhibits 4 and 5 for VOC and NOx, respectively, were developed following execution of the model in one mph speed increments, by jurisdiction, for each analysis year. Again, 2010 data have been added to the previous exhibits to show all milestone year results. The charts show significantly reduced rates through time, primarily due to the impacts of having cleaner vehicles in the fleet.

Emissions Analyses

Staff applied the Mobile6.2 emissions factors to the travel demand forecasts to prepare mobile source emissions inventories for the 2010 forecast year. Emissions results for all milestone years are summarized in Exhibit 6 and indicate VOC and NOx emissions for network and off-network components. The totals for 2010 are 62.66 tons/day for VOC, and 130.27 tons/day for NOx. The table shows dramatic reductions between 2005, 2010, and 2015, and further reductions thereafter with emissions leveling off at about 35 tons per day for both pollutants. The results reflect the impact of the cleaner fleet (continuing fleet turnover) and related programs, with slowing VMT growth rates through time. Net emissions for each forecast year are shown as the bottom line of the summary table. Emissions reductions associated with the TCMs included in the SIP for 2005 are also listed. Mobile source emissions are seen to be substantially less than the mobile budgets in 2010, as well as in all other forecast years. Exhibits 7 and 8 present these VOC and NOx results in a graphical format. In recognition of the fact that estimated emissions are within the mobile source budget for each pollutant, no additional transportation emissions reduction measures are required to demonstrate conformity.

SUMMARY

This report documents the technical methods and results of plan and program conformity analysis with respect to the 8-hour ozone standard. The analytical results described in this air quality assessment provide a basis for a determination by the TPB of conformity of the 2004 CLRP and the FY2005-2010 TIP, with the July 2004 transportation conformity regulations and all other requirements of the Clean Air Act Amendments of 1990.

Following: Exhibits 1-8
Attachments A-D

EXHIBIT 1
**Washington, D.C. - Maryland - Virginia
Modeled Area
and
Metropolitan Statistical Area**

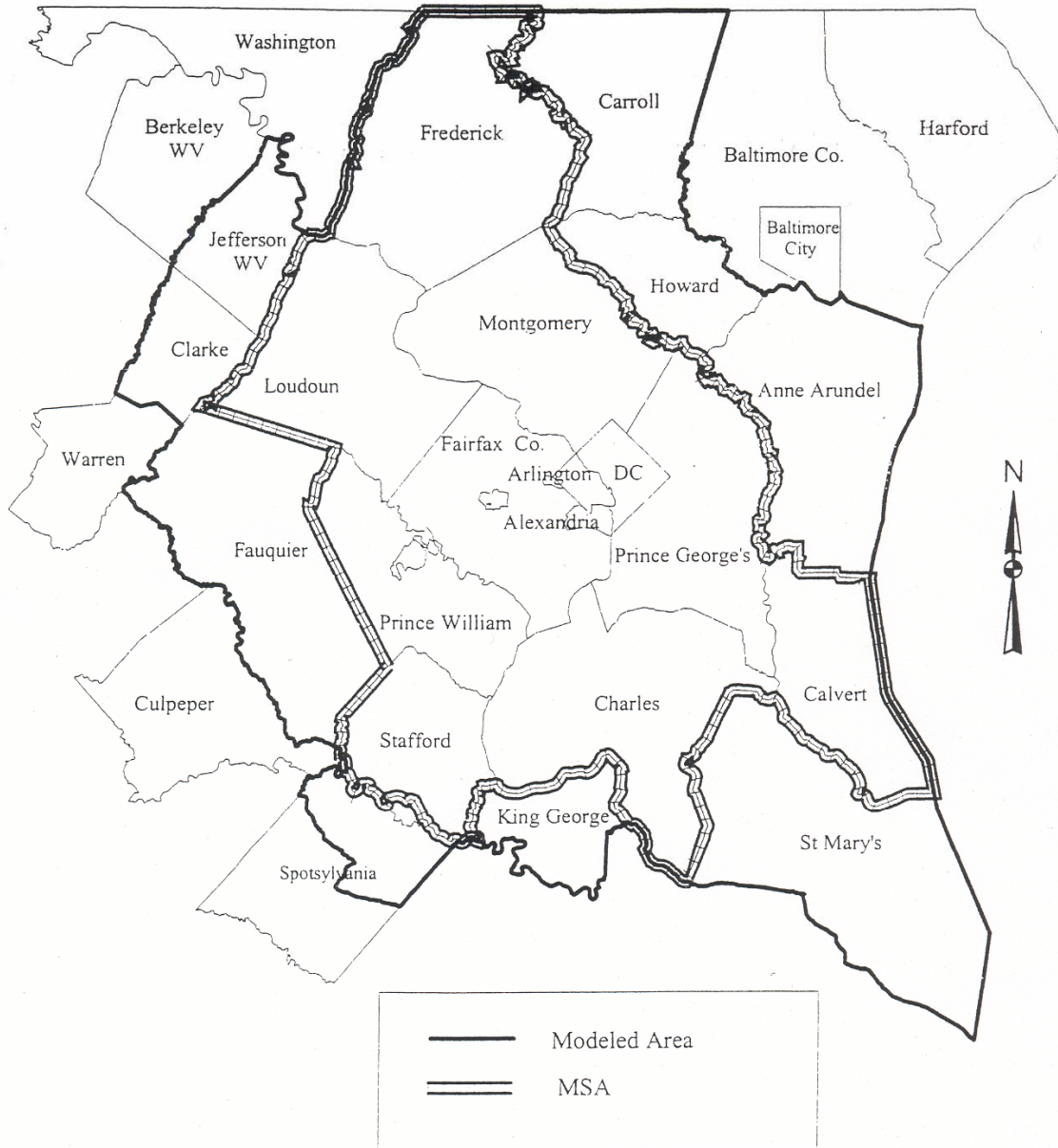


Exhibit 2
Travel Demand Summary
Modeled Area Trips and Vehicle Miles Traveled (000's)

	<u>2005</u>	<u>2010</u>	<u>2015</u>	<u>2025</u>	<u>2030</u>
Transit Trips	937.9	1,004.2	1,124.3	1,199.4	1,211.6
Vehicle Trips	20,603.3	22,235.0	23,509.3	25,801.7	26,802.0
VMT	156,286.3	169,294.6	181,797.9	203,344.6	213,139.5

Exhibit 3

Comparison of Daily VMT by Analysis Year in Air Quality Conformity Analysis:
2003 CLRP Vs. 2004 CLRP in the Modeled Area

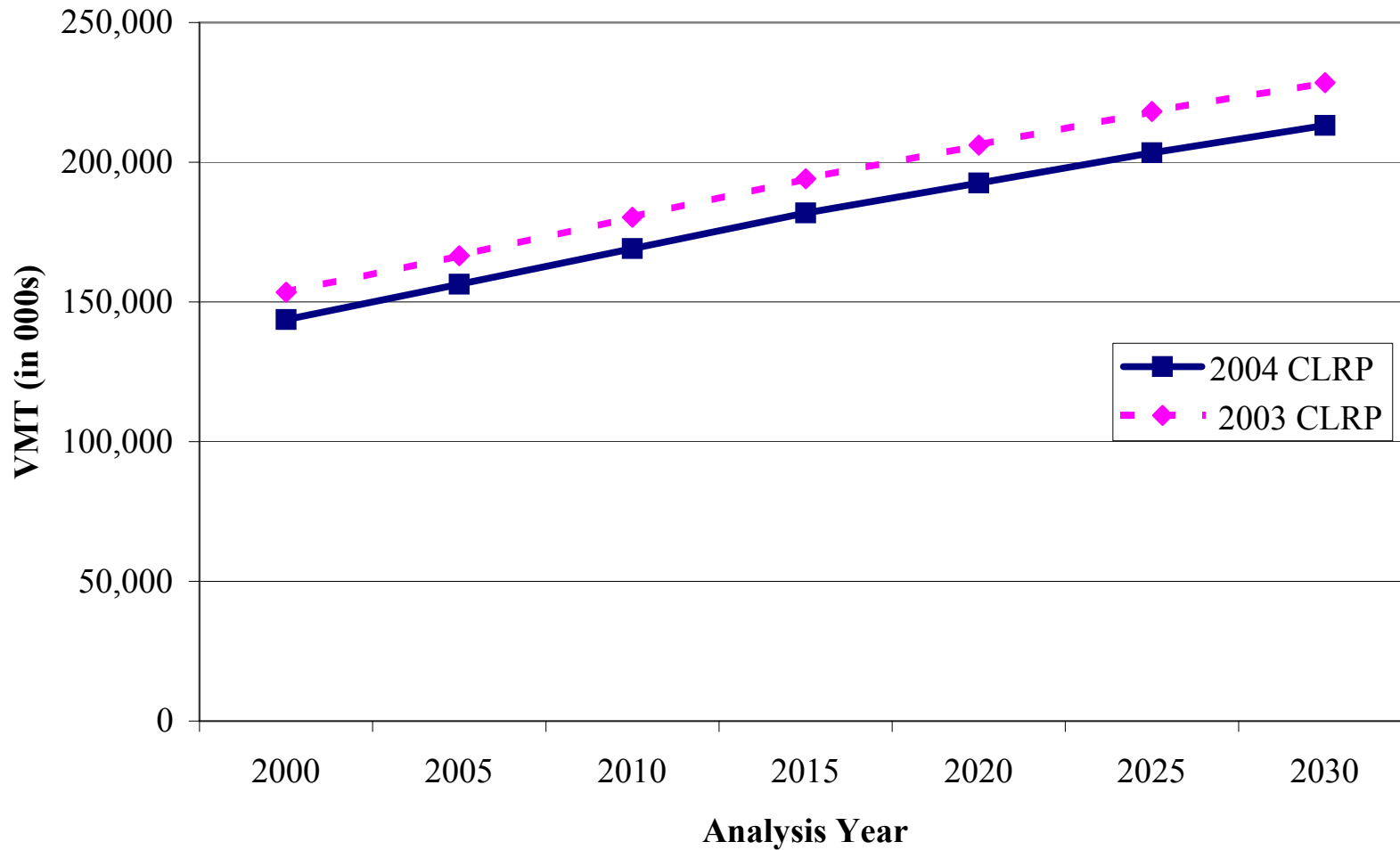
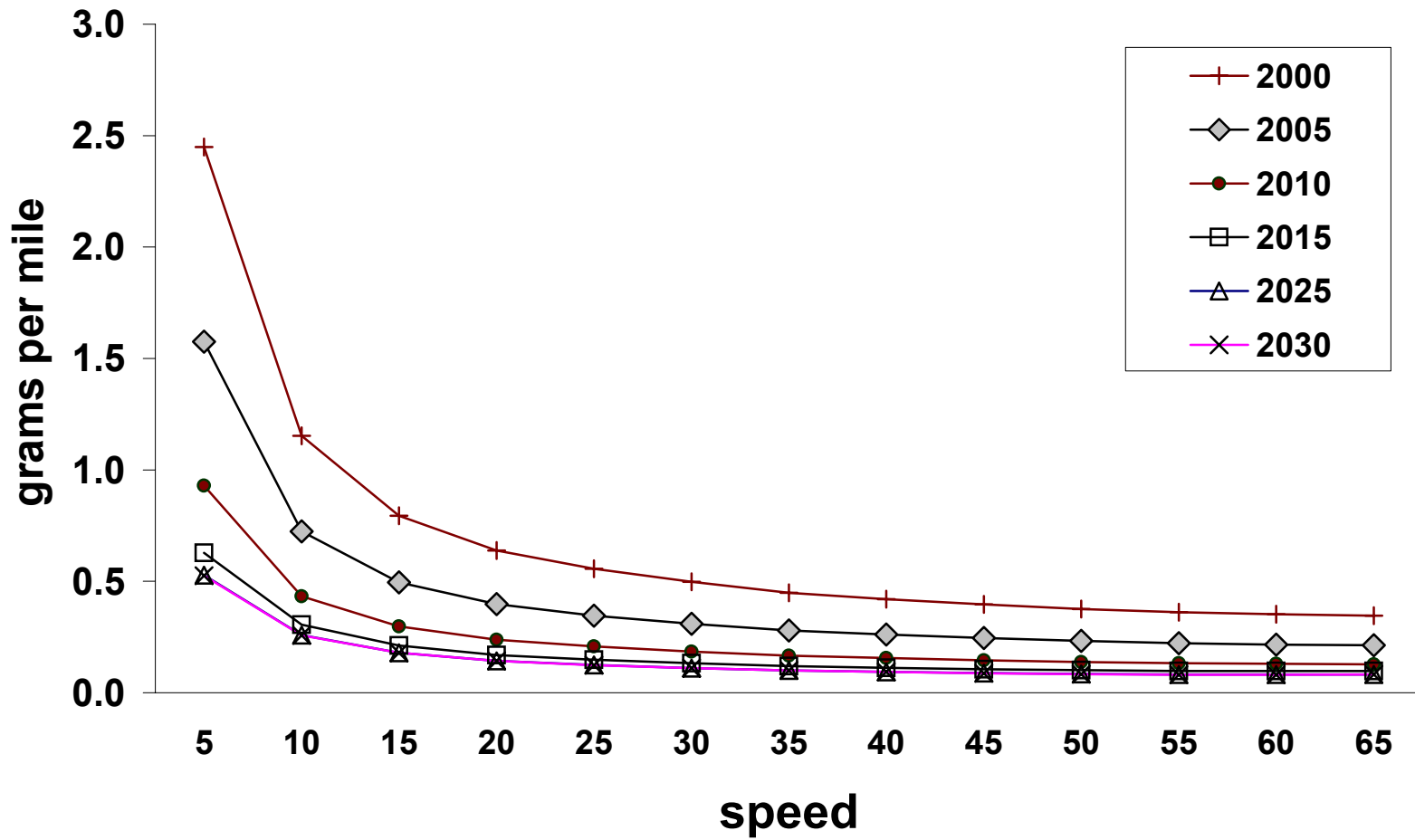
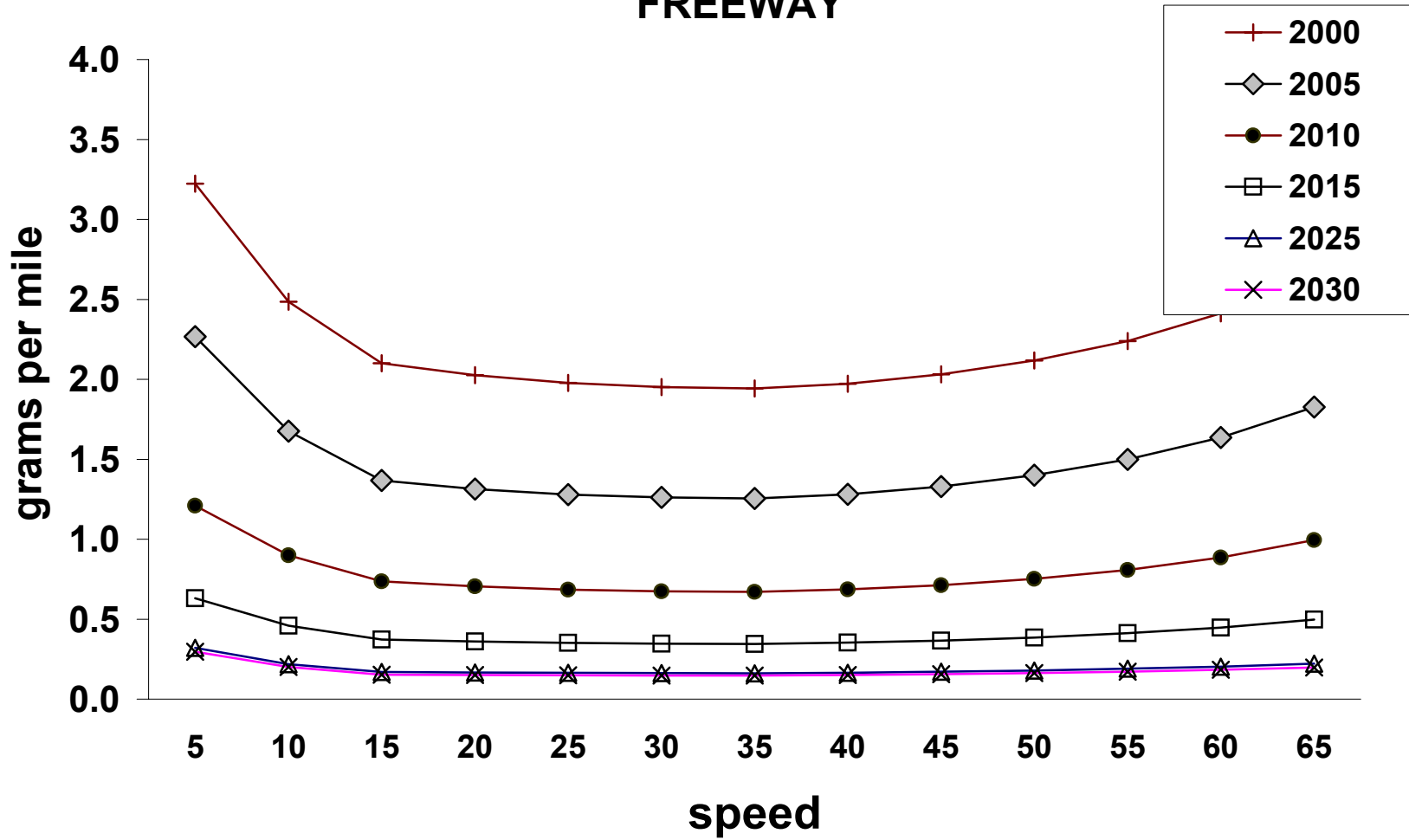


Exhibit 4 TOTAL 2000-2030 VOC COMPOSITE MOBILE6.2 RUNNING EMISSION RATES FOR MONTGOMERY COUNTY FREEWAY



Note: 2000 data developed using Mobile 6

**Exhibit 5
TOTAL 2000-2030 NO_x COMPOSITE MOBILE6.2 RUNNING
EMISSION RATES FOR MONTGOMERY COUNTY
FREEWAY**



Note: 2000 data developed using Mobile 6.

EXHIBIT 6
AIR QUALITY CONFORMITY
Summary Table - MSA
Mobile Emissions Inventories
for 2004 CLRP and FY 2005-2010 TIP
(Tons/Day)

	2005		2010		2015		2025		2030	
	VOC	NOx	VOC	NOx	VOC	NOx	VOC	NOx	VOC	NOx
I Network										
Start	17.64	11.09	11.07	6.89	8.14	4.69	6.56	2.61	6.49	2.40
Running	40.85	186.11	26.66	109.77	20.28	60.34	18.51	31.07	19.05	29.44
Soak	11.45	-----	9.56	-----	5.97	-----	3.85	-----	3.95	-----
II Off-Network										
Diurnal	2.82	-----	2.06	-----	1.27	-----	0.71	-----	0.75	-----
Resting Loss	10.56	-----	7.97	-----	4.66	-----	2.19	-----	2.28	-----
Local Roads	6.79	9.16	4.48	5.63	3.25	3.40	2.96	2.14	3.03	2.10
School Buses	0.38	5.49	0.28	3.76	0.21	1.82	0.16	0.27	0.17	0.27
Transit Buses	0.27	5.55	0.12	3.86	0.12	2.05	0.12	0.35	0.12	0.25
Auto Access	1.00	1.43	0.67	0.85	0.51	0.57	0.43	0.39	0.40	0.36
Total	91.77	218.83	62.86	130.76	44.39	72.89	35.48	36.82	36.23	34.82

TCMs	-0.30	-0.70	-0.20	-0.49
Net Emissions	91.47	218.13	62.66	130.27

Mobile Emissions Budgets:	98.10	237.40	98.10	237.40
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Budget Adherence Margin:	6.63	19.27	35.44	107.13
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EXHIBIT 7

Mobile Source VOC Emissions Metropolitan Statistical Area 2004 CLRP and FY 2005-2010 TIP

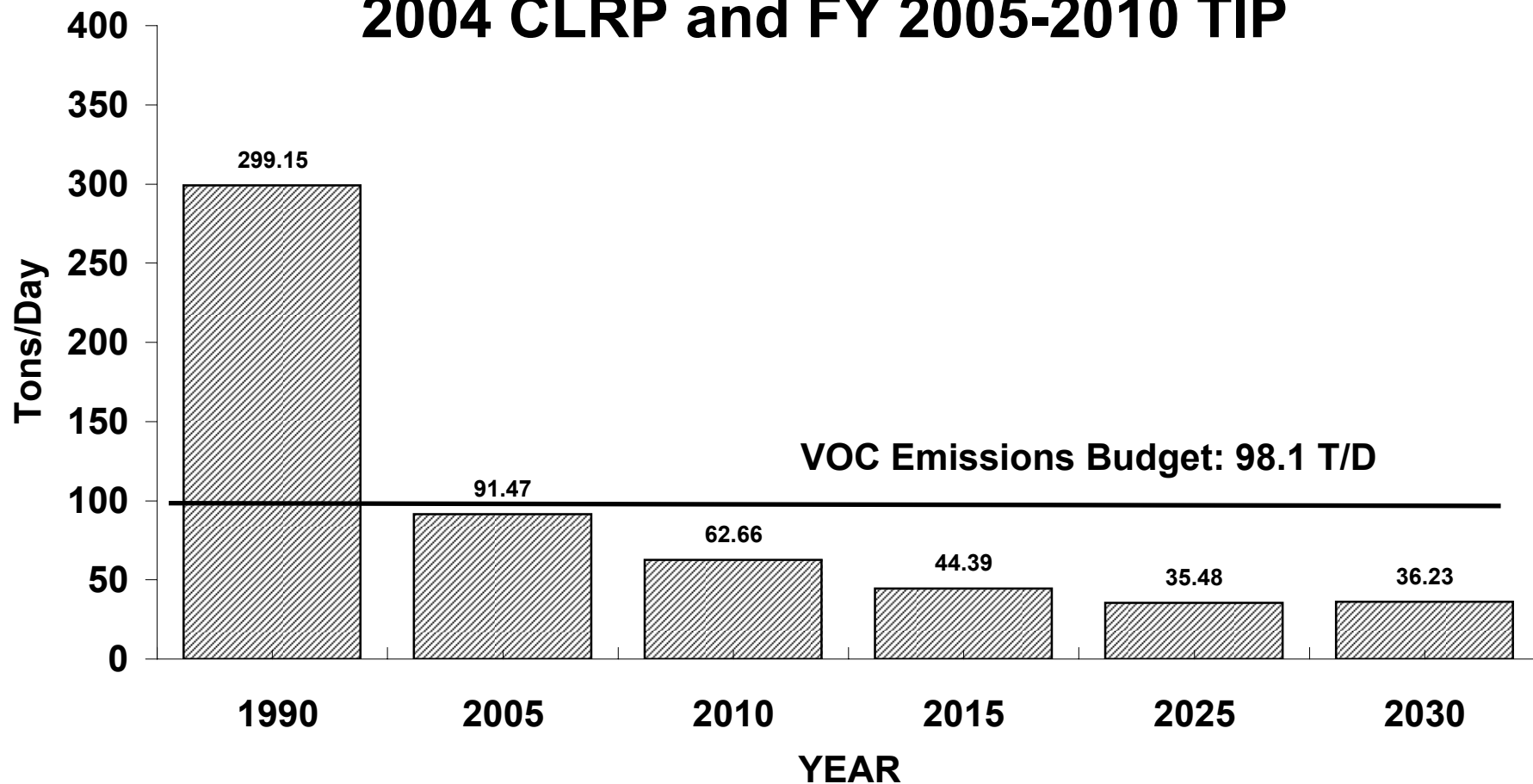
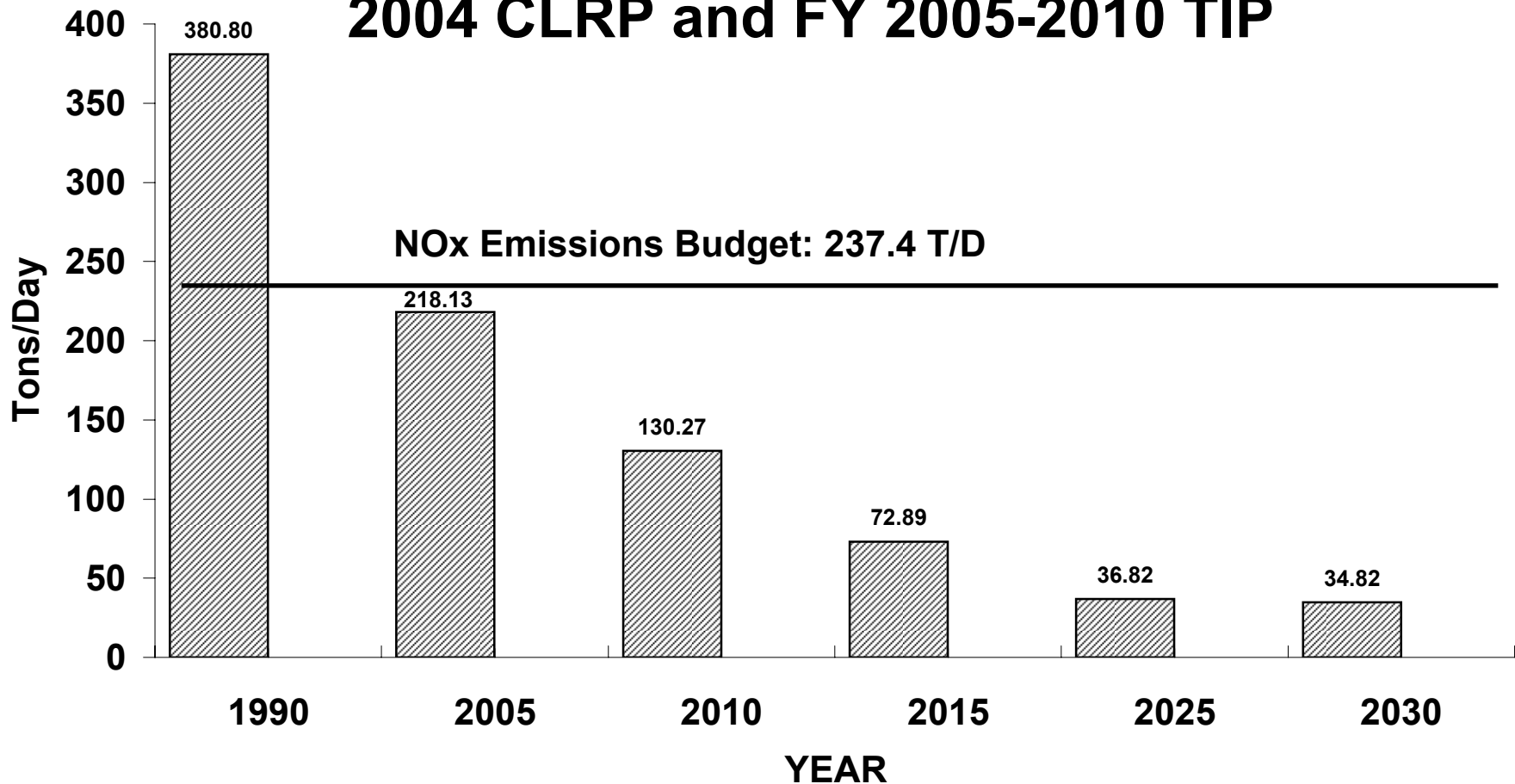


EXHIBIT 8

Mobile Source NOx Emissions Metropolitan Statistical Area 2004 CLRP and FY 2005-2010 TIP



ATTACHMENT A

September 15, 2004

The Honorable Thomas Dernoga
Chairman
Metropolitan Washington Air Quality Committee (MWAQC)
Metropolitan Washington Council of Governments
777 N. Capitol Street, N.E.
Washington, D.C. 20002

Dear Mr. Dernoga:

As you are aware, the final rule regarding air quality conformity requirements for the 8-hour ozone standard was published in the July 1, 2004 Federal Register. These new regulations affect the air quality conformity planning responsibilities of the National Capital Region Transportation Planning Board (TPB). Specifically, the TPB must demonstrate that its plans and programs adhere to conformity requirements with respect to the new standards by June 15, 2005 or face a conformity lapse. These requirements include the use of an interim emissions budget test for milestone analysis years, including 2010, the new attainment date for the 8-hour standard.

For the Washington, DC-MD-VA nonattainment area, the 8-hour nonattainment boundary is smaller than the 1-hour boundary, since Stafford County has been removed from the Washington nonattainment area for the 8-hour standard. In these circumstances, EPA's conformity rule provides two options for conducting a conformity analysis prior to the setting of new mobile budgets under the 8-hour standard: use of revised 1-hour budgets, removing Stafford County emissions from the 1-hour budgets and mobile emissions estimates (option 1); or use of the existing 1-hour budgets, retaining Stafford County in both the budgets and mobile emissions estimates (option 2).

In response to EPA's new requirements, the TPB has prepared two items for public comment and interagency consultation:

1. A scope of work for performing the 8-hour conformity assessment (see Enclosure 1. 8-Hour Ozone Standard Conformity Assessment, Scope Of Work), and
2. A listing of 2010 project elements (see Enclosure 2. 2004 CLRP and FY2005-2010 TIP Air Quality Conformity Inputs).

As noted in the work scope, TPB recommends use of the existing MWAQC 1-hour

budgets, retaining Stafford County in both the budgets and emissions estimates (option 2). These 1-hour budgets are associated with the results of MWAQC's latest nonattainment planning for the Washington region as a severe nonattainment area under the 1-hour standard. As the budget levels include Stafford County, the second fastest growing county in the region, the option 2 budget comparison test represents the more stringent of the two tests, consistent with the latest technical methods applied in developing the region's emissions picture. Use of these 1-hour budget levels would also enable the analysis to be accomplished in less calendar time, which is important to the region given the one year time frame for completing the analysis, including all federal approvals, by June 15, 2005.

The TPB is currently undertaking a conformity assessment using the 1-hour ozone and winter carbon monoxide criteria for the 2004 CLRP and FY2005-2010 TIP, with a draft report scheduled for October 1, 2004 and TPB action scheduled for November 17, 2004. The proposed 8-hour work scope is a supplement to the ongoing 1-hour conformity analysis. As noted in the work scope schedule, the supplemental analysis is to be undertaken immediately following the 1-hour analysis, with a draft report scheduled for December 15, 2004 and TPB action on January 19, 2005. This schedule is designed to permit the TPB and subsequent federal approvals to occur well in advance of the June 15, 2005 deadline, so that the region may avoid a conformity lapse.

The TPB would appreciate MWAQC's review and comment on the enclosed scope of work and listing of 2010 project elements. The TPB looks forward to a continuing close working relationship with MWAQC in meeting these important conformity requirements related to the 8-hour ozone standard.

Sincerely yours,

Christopher Zimmerman
Chairman
National Capital Region Transportation Planning Board

Enclosures (2)

Metropolitan Washington Air Quality Committee

Suite 300, 777 North Capitol Street, N.E. Washington , D.C. 20002-4239 202-962-3358 Fax: 202-962-3203

October 13, 2004

Honorable Christopher Zimmerman, Chair
National Capital Region Transportation Planning Board
777 North Capitol Street, NE
Washington, D.C. 20002

Dear Chair Zimmerman:

The Metropolitan Washington Council of Governments Air Quality Committee (MWAQC) has received your letter of September 15, 2004 and we appreciate the opportunity to provide comments on 8-hour ozone standard conformity assessment scope of work.

In July EPA released its 8-hour ozone transportation conformity guidance, outlining options for areas like the Washington, DC-MD-VA nonattainment area that have existing mobile budgets for the one-hour ozone standard. The region is required to conduct an 8-hour conformity determination by June 15, 2005 or face a conformity lapse.

The Washington, DC-MD-VA nonattainment area for the 8-hour ozone standard is smaller than the area for the one-hour standard because Stafford County, Virginia is no longer included. TPB's preferred option for conducting the 8-hour conformity assessment is to use the existing one-hour mobile emissions budgets, keeping Stafford County in the budgets and in the mobile emissions estimates for all analysis years. MWAQC agrees with TPB to use the existing one-hour mobile budgets for the transitional 8-hour conformity. We agree that removing Stafford County from the analysis would be difficult considering resources and limited time required to complete the work.

MWAQC is pleased to note that TPB has begun the work of collecting the information needed to code the 2010 network to accommodate the new milestone year for the 8-hour analysis. As currently planned, the TPB will first complete the 1-hour determination in November. Then, in January, TPB will complete the 8-hour conformity determination with a new analysis for 2010.

Thank you for the opportunity to comment on the 8-hour ozone conformity assessment scope of work. We look forward to working closely with you on making further improvements to the region's air quality to meet the new 8-hour standard.

Sincerely,



Thomas Dernoga
Chairman
Metropolitan Washington Air Quality Committee

ATTACHMENT B

8-HOUR OZONE STANDARD CONFORMITY ASSESSMENT

SCOPE OF WORK

Supplement to the Air Quality Conformity Assessment of the 2004 Constrained Long Range Plan Amendments and FY2005-2010 Transportation Improvement Program

I. INTRODUCTION

On April 15, 2004 the Environmental Protection Agency (EPA) designated 474 counties that exceeded the health-based standards for 8-hour ozone as non-attainment areas. The 8-hour ozone standard, 0.08 parts per million (ppm), averaged over eight hours, replaces the 1-hour standard of 0.12 ppm, measured in hourly increments, that has been in place since 1979. The EPA classified each ozone non-attainment area based on the severity of its ozone problem. The agency created five areas of classification: marginal, moderate, serious, severe, and extreme. The Washington, DC-MD-VA area was designated moderate. Areas with a classification of moderate must achieve attainment status by June 15, 2010. Non-attainment areas are required to submit to EPA a state implementation plan (SIP) to define the expected method for reducing the ozone level in the air and emissions of ozone precursors.

On July 1, 2004 the EPA published the final rule for the transportation conformity under the new 8-hour ozone standard. There are four potential scenarios into which each non-attainment area can be categorized: *Scenario 1*- Areas where the 8-hour ozone area boundary is exactly the same as the 1-hour ozone area boundary; *Scenario 2*- Areas where the 8-hour boundary is smaller than the 1-hour boundary, (*i.e.*, the 8-hour area is completely within the 1-hour area); *Scenario 3*- Areas where the 8-hour boundary is larger than the 1-hour boundary (*i.e.*, the 1-hour area is completely within the 8-hour area); and *Scenario 4*- Areas where the 8-hour boundary partially overlaps the 1-hour area boundary. The Washington DC-MD-VA non-attainment area falls under *Scenario 2*, with Stafford County in the 1-hour boundary, but not in the 8-hour boundary.

In *Scenario 2* areas, conformity must generally be shown using one of the following two versions of the budget test: *Option 1*- Use revised 1-hour budgets for the 8-hour area, removing the extra areas' (for this region, Stafford County) emissions from budgets and from updated CLRP/TIP emissions estimates, *Option 2* – Use the existing 1-hour budgets for the 1-hour area, retaining all (including Stafford County) emissions in both the budgets and the updated CLRP/TIP emissions. The consultation process must determine the choice between *Option 1* and *Option 2*. Staff recommends *Option 2* because Stafford County is the second fastest growing county in the region, so *Option 2* is the more stringent test. Additionally, less calendar time is needed for *Option 2* than for *Option 1* because there would be no need to develop revised budgets and emissions that exclude Stafford County.

For either *Option*, the 8-hour ozone standard for a “moderate” area requires an analysis of the 2010 attainment year. The region must demonstrate that the plan and program conform to the new 8-hour requirements by June 15, 2005 or suffer a lapse. Because the conformity requirements for this analysis were not specified when COG/TPB staff developed the original scope of work for the air quality conformity assessment of the 2004 Constrained Long Range Plan (CLRP) and the FY2005-2010 Transportation Improvement Program (TIP), a supplemental work plan is necessary.

This scope of work presents an outline of the work tasks to address the conformity requirements of the 8-hour ozone standards; it supplements the ongoing work activities directed at the 1-hour standards to ensure that all requirements are addressed in performing the Air Quality Conformity Assessment of the 2004 CLRP and FY2005-2010 TIP.

II. REQUIREMENTS AND APPROACH

A. Criteria (See Exhibit 1)

As described in the 1990 Clean Air Act Amendments, conformity is demonstrated if transportation plans and programs:

1. Are consistent with most recent estimates of mobile source emissions,
2. Provide expeditious implementation of TCMs, and
3. Contribute to annual emissions reductions.

B. Approach The analytical approach is similar to that applied and documented in the development of the Washington area’s severe area ozone SIP. In addition to the highlighted elements below, explicit inputs include: a summary list of major policy and technical input assumptions, shown as Attachment A; and all transportation network elements which were finalized at the April 21, 2004 TPB meeting and supplemented, in September, 2004, to clarify completion dates for a 2010 forecast year.

1. The use of *Option 2* (retaining Stafford County in both budgets and emissions estimates).
2. Regionally significant projects
3. Round 6.4A Cooperative Forecasts
4. Expanded cordon (2191 zone) networks and model set (Methodology as described in the Metropolitan Washington Council of Governments, COG/TPB Travel

Forecasting Model, Version 2.1/TP+, Release D, Report. Refinements to Version 2.1 Release C addressed in Version 2.1 Release D include:

- use of updated toll analysis methods
 - updated speed / capacity tables
 - revised volume delay function for freeways
 - minimized model adjustment factors
 - bus speed / highway congestion relationships
 - speed feedback revisions to ensure consistency of travel speeds throughout the process
5. MOBILE6.2 model emission factors, consistent with the procedures utilized to establish the latest VOC and NOx mobile source emissions budgets within the severe area SIP
 6. Refinements developed as part of the SIP include: use of 2002 vehicle registration data for all jurisdictions; updated VMT mix procedures using national trends in vehicle fleet characteristics together with local data on light duty versus heavy duty vehicle use; updated databases for public transit and school buses, park and ride lot use, and travel on local roads; and post-processor estimation
 7. VOC and NOx emissions budgets
 8. MSA-based geography

III. CONSULTATION

1. Execute TPB consultation procedures as outlined in the consultation procedures report adopted by the TPB on May 20, 1998.
2. Participate in meetings of MWAQC, its Technical Advisory Committee and its Conformity Subcommittee to discuss the scope of work activities, TERM development process, and other elements as needed; discuss at TPB meetings or forums, as needed, the following milestones:
 - Project solicitation
 - Scope of work
 - TERM proposals
 - Project submissions: documentation and comments
 - Analysis of TERMS, list of mitigation measures
 - Conformity assessment: documentation and comments
 - Process: comments and responses

IV. WORK TASKS

1. Receive clarification of project completion dates in the 2004 CLRP / FY2005-2010 TIP conformity table to ascertain that inputs for the 2010 forecast year network are appropriate.
 - No change to previously defined forecast year networks (2005, 2015, 2025, 2030)
2. Utilize Round 6.4A Cooperative Forecasts
 - Households by auto ownership, population and employment
 - Zonal data files
3. Utilize 1990 and 2002 base conditions developed in the severe area SIP process; utilize 2005, 2015, 2025, and 2030 conditions developed in the 1-hour ozone conformity assessment of the 2004 CLRP and FY2005-2010 TIP.
4. Prepare 2010 highway and transit networks
 - Update highway database
 - Update GIS highway network
 - Filter database to create 2010 highway network
 - Rebuild network for modeling
 - Update / edit transit files
5. Prepare 2010 ozone attainment year travel and emissions estimates
 - Execute travel demand modeling
 - Perform transit “capacity constraint” procedures
 - Apply Mobile6.2 emission factors based upon 2004 CLRP work
 - Calculate emissions
6. Analyze results of above technical analysis
 - Reductions from 1990 and 2002 base
 - VOC and NOx emissions budgets
 - With review by the Travel Management Subcommittee, the Technical Committee and the TPB, identify and recommend additional measures should the plan or program fail any test and incorporate
7. Assess conformity and document results in a report
 - Document methods
 - Draft conformity report
 - Forward to technical committees and policy committees
 - Make available for public and interagency consultation

- Receive comments
- Address comments and present to TPB for action
- Finalize report and forward to FHWA, FTA and EPA

V. SCHEDULE

The schedule for the execution of these work activities is shown in Exhibit 2, attached. This schedule shows the adoption of the 8-hour conformity determination by the TPB in January, which allows sufficient time for distribution, review and final approval by federal agencies in order to meet the June 15, 2005 deadline for avoiding a conformity lapse.

Exhibit 1

Conformity Criteria

All Actions at all times:

Sec. 93.110	Latest planning assumptions.
Sec. 93.111	Latest emissions model.
Sec. 93.112	Consultation.

Transportation Plan:

Sec. 93.113(b)	TCMs.
Sec. 93.118 or Sec. 93.119	Emissions budget or Emission reduction.

TIP:

Sec. 93.113(c)	TCMs.
Sec. 93.118 or Sec. 93.119	Emissions budget or Emission reduction.

Project (From a Conforming Plan and TIP):

Sec. 93.114	Currently conforming plan and TIP.
Sec. 93.115	Project from a conforming plan and TIP.
Sec. 93.116	CO and PM10 hot spots.
Sec. 93.117	PM10 control measures.

Project (Not From a Conforming Plan and TIP):

Sec. 93.113(d)	TCMs.
Sec. 93.114	Currently conforming plan and TIP.
Sec. 93.116	CO and PM10 hot spots.
Sec. 93.117	PM10 control measures.

Sec. 93.110 Criteria and procedures: Latest planning assumptions.

The conformity determination must be based upon the most recent planning assumptions in force at the time of the conformity determination.

Sec. 93.111 Criteria and procedures: Latest emissions model.

The conformity determination must be based on the latest emission estimation model available.

Sec. 93.112 Criteria and procedures: Consultation.

Conformity must be determined according to the consultation procedures in this subpart and in

the applicable implementation plan, and according to the public involvement procedures established in compliance with 23 CFR part 450.

Sec. 93.113 Criteria and procedures: Timely implementation of TCMs.

The transportation plan, TIP, or any FHWA/FTA project which is not from a conforming plan and TIP must provide for the timely implementation of TCMs from the applicable implementation plan.

Sec. 93.114 Criteria and procedures: Currently conforming transportation plan and TIP.

There must be a currently conforming transportation plan and currently conforming TIP at the time of project approval.

Sec. 93.115 Criteria and procedures: Projects from a plan and TIP.

The project must come from a conforming plan and program.

Sec. 93.116 Criteria and procedures: Localized CO and PM10 violations (hot spots).

The FHWA/FTA project must not cause or contribute to any new localized CO or PM10 violations or increase the frequency or severity of any existing CO or PM10 violations in CO and PM10 nonattainment and maintenance areas.

Sec. 93.117 Criteria and procedures: Compliance with PM10 control measures.

The FHWA/FTA project must comply with PM10 control measures in the applicable implementation plan.

NOTE: See EPA's August 15, 1997 conformity regulations for the full text associated with each section's requirements.

Exhibit 2

**PROPOSED 8-HOUR OZONE STANDARD SUPPLEMENT TO
THE YEAR 2004 CLRP AND FY 2005-2010 TIP
AIR QUALITY CONFORMITY SCHEDULE**

September 3, 2004	TPB Technical Committee Reviews Draft Work Scope and Conformity Project Input Table
*September 15, 2004	TPB Releases Draft Work Scope and Project Inputs for Public Comment and Inter-Agency Review
*October 20, 2004	TPB Reviews Public Comments, Approves Draft Scope of Work and Project Submissions for Inclusion in the 8-Hour Air Quality Conformity Analysis
*December 15, 2004	TPB Receives Briefing on, and Releases Draft 8-Hour Air Quality Conformity Determination for Public Comment and Inter-Agency Review
*January 19, 2005	TPB Reviews Public Comments on Draft Document, Approves Responses to Comments, and Adopts the 8-Hour Air Quality Conformity Determination

*TPB Meeting

**POLICY AND TECHNICAL INPUT ASSUMPTIONS
8-HOUR OZONE STANDARD CONFORMITY ASSESSMENT**

1. Land Activity

- Round 6.4A Cooperative Forecasts

2. Policy and Project Inputs

- Highway, HOV and transit projects and operating parameters
- Financially constrained project submissions advanced by the TPB on 4/21/2004, and supplemented, in September, 2004, to clarify completion dates for a 2010 forecast year.

3. Travel Demand Modeling Methods

- 'Version 2.1 D' Travel Model
- I-66 (inside the beltway) at HOV-3 in 2010
- Transit "capacity constraint" procedures

4. Emission Factors

- Emission factors methods as developed and applied in the SIP and in the 2004 CLRP conformity process: MOBILE6.2, 2002 registration data, VMT mix specific to each analysis year
- Enhanced I/M in DC, MD, and VA, using state-specified standards

5. Emissions Modeling Methods / Credits

- Updated post-processor methods as developed in the 1-hour 2004 CLRP
- Offline emissions analyses

6. Conformity Assessment Criteria

- 8/15/97 EPA regulations (as modified by the 3/2/99 court decision and subsequent guidance), including 1/1/95 technical requirements, and 7/01/04 EPA regulations stating the transportation conformity rule amendments for the new 8-hour ozone standards; use of severe area SIP mobile source emissions budgets
- Analysis years: 2005, 2010, 2015, 2025, 2030

ATTACHMENT C

**2004 CLRP AND FY2005-2010 TIP AIR QUALITY CONFORMITY INPUTS
PROJECTS WITH COMPLETION DATES BETWEEN 2006 AND 2010
(Highway and HOV)**

Agency	Project ID	Improv.	Environ. Review	Facility	From	To	Facility		Lanes		Under Const. or ROW acquired?	Complt. Date or Status	In TIP?
							from	to	from	to			
District of Columbia													
DCDOT		Construct		Klinge Road Reconstruction	Porter Street	Woodley Road						2007	Yes
DCDOT		Construct		Minnesota Ave. NE ext.	Sheriff Rd	Meade St. N.E.						2009	Yes
Maryland													
MDOT Freeway													
MDSHA	MI4	Widen	Approved	I-70 - Phases 2B, 2C, 2D, 3 and 4	Mount Phillip Road	MD 144FA	1	1	4	6	No	2010	Yes
MDSHA	MI1k	Construct	Approved	I-95/I-495 (Capital Beltway)	Branch Avenue Metro Access		1	1	8	8	No	2010	Yes
MDSHA	VA	Widen	Approved	I-95/I-495 Woodrow Wilson Bridge	MD 210 Interchange	Virginia Line	1	1	6	12	Yes	2008	Yes
MDSHA	MI1m	Construct	Pending	I-95/I-495/Arena Drive Interchange	MD 214	MD 202	1	1	8	8	No	2010	Yes
MDSHA	MP12	Construct	Pending	Intercounty Connector	I-270	I-95 / US 1	0	1	0	6	No	2010	Yes
MDOT Primary													
MDSHA	MP9	Widen	Pending	MD 2/4	south of MD 765	north of Stoakley Road	2	2	4	6+2	No	2010	No
MDSHA		Construct	Approved	MD 4 (Pennsylvania Avenue)	Interchanges at Westphalia Rd., Suitland Pkwy., Dower		2	5	4	4	No	2010	Yes
MDSHA	MP3a	Upgrade/W	Approved	MD 4	MD 223	I-95/I-495	2	5	4	6	No	2010	No
MDSHA	MP4k	Construct	Approved	MD 5 Relocated at Hughesville	End of divided highway south of Hughesville	End of divided highway north of Hughesville	0	5	0	4	No	2010	No
MDSHA		Construct	pending	US 15 Catoclin Mountain Highway	MD 26 Liberty Road		2	2	4	4	No	2010	Yes
MDSHA		Upgrade	approved	US 29 (Columbia Pike)	Briggs Chaney Road		2	5	6	6	Yes	2006	Yes
MDSHA		Construct	pending	MD 75 Relocated	I-270	e. of MD 355	0	3	4	4	No	2010	Yes
MDOT Secondary													

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MDSHA	MS6b	Widen	Approved	MD 124 (Woodfield Road)	Midcounty Highway	Warfield Road	2	2	2	6	No	2010	Yes
MDSHA	MS30	Widen/Con	Approved	MD 414 Extended	MD 210	I-295	0	2	0	4	Yes	2008	Yes
MDSHA	MS18h	Widen	Approved	MD 450 (Annapolis Road)	MD 193	Stonybrook Drive	2	2	2	4/6	Yes	2006	Yes
MDSHA	MS20c	Construct	Approved	MD 475 (East Street Extended)	South Street	proposed Monocacy Boulevard	0	3	0	4	No	2010	Yes
Montgomery County													
Mont.Co.	nrs	Construct		Burtonsville Access Rd.	MD 198	School Success Rd.	0	4	0	2		2010	Yes
Mont.Co.				Century Blvd./Crystal Rock Loop	existing Century Blvd.	Crystal Rock Drive		3		4	No	2010	No
Mont.Co.		Construct		Chapman Avenue	Randolph Road	Old Georgetown Road	0	3	0	2	No	2010	No
Mont.Co.	MC38a	Construct		Citadel Avenue Extended	dead end of existing road south of Marinelli Road	Nicholson Lane	0		0		No	2006	Yes
Mont.Co.	MC5c	Widen		Father Hurley/ Ridge Rd.	I-270	existing MD 27	2	2	4	6	no	2010	No
Mont.Co.	MC7a	Widen		Goshen Rd. Fac. Planning	Odenhal Avenue.	Warfield Road	3	3	2	4	no	2010	No
Mont.Co.	MC41	Widen		Longdraft Road	MD 124	MD 117	3	3	2	4	No	2010	No
Mont.Co.		Study		M-83 (with MD 118 Ext. and Middlebrook Rd. Ext. widening projects below)	MD 27 (Ridge Road)	Montgomery Village Avenue	0	2	0	4-6	No	2006 for study	No
Mont.Co.	MC15	Construct	N/A	Montrose Parkway West	Montrose Road (Tower Oaks Blvd.)	old' Old Georgetown Road	0	2	0	4	No	2010	No
Mont.Co.	MC30	Construct		Nebel St Extended	Randolph Rd	Bou Ave/Chapman Ave	0	3	0	4		2007	Yes
Mont.Co.	MC28	Construct	N/A	Stringtown Rd. Ext.	I270/ MD 121 int.	existing Stringtown Rd. @ MD 355	0	3	0	4	No	2007	Yes
Mont.Co.	MC22			Valley Park Dr.	e.of MD 27	exist. Valley Park Dr.						2006	Yes

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Mont.Co.	MC13	Construct		Woodfield Rd. (MD 124 Ext.)	1200' North of MD 108	MD 27	0	2	0	2		2007	Yes
Prince Georges County													
PG Co.	PGS6	Widen	N/A	Ammendale/Virginia Manor Road	I-95	west of US 1	3	3	2	6	Yes	2006	Yes
PG Co.	PGS74b	Construct	N/A	Bell Station Road	Annapolis Road (MD 450)	Church Road	0	4	0	4	Yes	2006	No
PG Co.	PGS75	Widen	N/A	Berry Road	Livingston Road	Accokeek Road (MD 373)	4	4	2	4	No	2010	No
PG Co.	PGS76	Widen	N/A	Briggs Chaney Road	Montgomery County line	Old Gunpowder Road	4	4	2	4	Yes	2010	No
PG Co.	PGS16b	Construct	N/A	Campus Way North Extended	south of Lottsford Road	Evarts Drive	0	4	0	4	No	2010	No
PG Co.	PGS17	Widen	N/A	Cherry Hill Road	Montgomery County line	Baltimore Avenue (US 1)	3	3	2	4	No	2006	Yes
PG Co.	PGS34a	Widen	N/A	Hill Road	Central Avenue (MD 214)	ML King Jr Highway (MD 704)	4	4	2	4	No	2010	Yes
PG Co.	PGS88	Construct	N/A	Iverson St. Extended	Wheeler Road	19th Avenue	0	4	0	4	No	2010	Yes
PG Co.	PGS40a	Widen	N/A	Lottsford Road	Landover Road (MD 202)	Enterprise Road (MD 193)	3	3	2	4	No	2006	Yes
PG Co.		Construct	N/A	National Harbor Main Circulation Roads	I-95/I-295 Interchange	Waterfront Parcel, National Harbor	0	4	0	4/6		2007	Yes
PG Co.	PGS52	Widen	N/A	Oxon Hill Road	Fort Foote Rd - North	MD 210	4	4	2	4	No	2010	Yes
PG Co.		Construct		Regency Parkway/ Regency Lane	Regency Lane	Hil-Mar Drive	0	4	0	4		2007	Yes
PG Co.	PGS56a	Widen	Approved	Ritchie Road/Forestville Road	Alberta Drive	MD 4 Pennsylvania Avenue	4	4	2	4	Yes	2009	Yes
PG Co.	PGS62a	Widen	N/A	Suitland Road	Allentown Road (MD 337)	Suitland Parkway	3	3	2	4	No	2009	Yes
PG Co.	PGS42	Widen	N/A	Woodyard Road (MD 223)	Rosaryville Road	Dower House Road	2	2	2	4	No	2007	No
PG Co.	PGS42b	Construct	N/A	Woodyard Road Relocated (MD 223)	Piscataway Creek	Livingston Road	0	3	0	2	No	2010	No

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Frederick County													
Fred.Co.	FS2	Construct	N/A	Monocacy Blvd	Hughes Ford Rd.	Gas House Pike	0	3	0	4	Yes	2006	No
Anne Arundel County													
Carroll County													
BMC	CA3A	Construct	N/A	Hampstead Bypass (MD 30)	Wolf Hill Dr	Brodbeck Rd		2	0	2		2007	
BMC	nrs	Reconstruct	N/A	MD 140 (reconstruct bridge)	MD 97 (north)	MD 27		1				2006	
Howard County													
BMC	HW20	Widen	N/A	Dorsey Run Rd	MD 175	MD 32		4	2	4		2010	
BMC	nrs	Construct	N/A	Dorsey Run Rd	MD 103	MD 175		4	0	2		2010	
BMC	nrs	Construct	N/A	Loop Road (new interchange)	@ MD 216 West							2006	
BMC	nrs	Construct	N/A	Loop Road (new interchange)	@ MD 216 East							2006	
BMC	HW8b	Widen	N/A	MD 216	West of US 29	Sanner Road		3	2	4		2010	
BMC	nrs	Construct	N/A	North Ridge Road	Carts Court	Rogers Ave and Town&County Blvd to US 40			-	2		2010	
BMC	HW11b	Widen	N/A	Rodgers Avenue	US 40	Courthouse Drive		3	2	4		2010	
Virginia													
VDOT Freeway													
VDOT	VI3b	Restripe	PCE-1	I-395 HOV (3 lanes total)	I-95	DC	1	1	2	3	No	2010	No
VDOT	VI1c	Widen	CE-4	I-66 HOV during peak	VA 234 (Prince Wm. Pkwy)	VA 234 Business (Sudley Rd.)	1	1	4	8	yes	2006	No

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VDOT	VI1ca	Widen	CE-4	I-66 HOV during peak (5 lanes eb)	US 29 (Gainesville)	VA 234 (Prince William Parkway)	1	1	4	9	no	2010	Yes
VDOT	VI2p	Widen	CE-1	I-95 (provide 4th lane)	Newington	VA 123	1	1	6	8	No	2010	Yes
VDOT	VI2k	Widen	SEIS-2	I-95 (Wilson Bridge and approaches)	US 1	MD 210	1	1	6	12	yes	2009	Yes
VDOT	VI2l	Restripe	PCE-1	I-95 HOV (3 total)	Quantico Creek	I-495	1	1	2	3	no	2010	No
VDOT	VI2ab	Reconstruct	Pending	I-95 Interchange	@ VA 642 (Lorton Road)		1	1	-	-	No	2010	No
VDOT	VI2c	Reconstruct	approved	I-95/395/495 Interchange			1	1	-	-	Yes	2007	Yes
VDOT	MW1	Widen	Pending	Dulles Airport Access Road	Dulles Airport	VA 123	1	1	4	6	No	2010	No
VDOT	VP21e	Widen	N/A	Dulles Greenway	VA7/15 Bypass	Goose Creek Bridge	1	1	4	6	No	2006	No
VDOT Primary													
VDOT	nrs	Reconstruct	Pending	US 1	@ VA 619 (Joplin Road)	USMC HERITAGE CENTER ACCESS	-	-	-	-	No	2007	Yes
VDOT	VP1o	Widen	Approved	US 1 (Neabsco Creek Bridge)	VA 610 (Neabsco Road)	VA 638 (Neabsco Mills Road)	2	2	4	6	No	2009	yes
VDOT	VP1p	Widen	Pending	US 1 (part of 1/123 interchange)	Occoquan Rd.	Annapolis Way	2	2	4	6	No	2008	No
VDOT	nrs	Reconstruct	Pending	US 1 Interchange	@ Russell Road		1	1	-	-	No	2010	No
VDOT	VP2ma	Widen	Pending	VA 7	Rolling Holly Drive	Reston Parkway	2	2	4	6	No	2009	Yes
VDOT	nrs	Reconstruct	Pending	VA 7	@ VA 711 (Williams Gap Road)		2	2	4	4	No	2006	Yes
VDOT	nrs	Reconstruct	Pending	VA 9	@ VA 662 (Clarks Gap Road)		3	3	-	-	No	2006	Yes
VDOT	VP4fa	Widen	N/A	US 15 (James Madison Highway)	I-66	VA 234	2	2	2	4	No	2006	Yes
VDOT	nrs	Reconstruct	N/A	US 15 (James Monroe Highway)	Whites Ferry Rd.	Lucketts Road	3	3	2	2	No	2006	Yes

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VDOT	nrs	Reconstruct	N/A	US 15 (James Monroe Highway)	Lucketts Road	Maryland State Line	3	3	2	2	No	2006	No
VDOT	nrs	Reconstruct	N/A	US 15 (James Monroe Highway)	Village of Lucketts	Vicinity of VA 662	3	3	2	2	No	2006	No
VDOT	nrs	Reconstruct	Pending	VA 27 Interchange	@ VA 244 (Columbia Pike)		-	-	-	-	No	2010	No
VDOT	nrs	Recons/Wid	Pending	VA 28	Bridge over Broad Run	Replace / Widen to ultimate width	3	3	2	6	No	2007	Yes
VDOT	VP6ea	Widen/Upgr	N/A	VA 28	Dulles Toll Rd.	VA 606 (Old Ox Rd.)	2	1	6	6	No	2008	No
VDOT	VP6eb	Construct		VA 28 Interchange	@ VA 209 (Innovation Ave.)		-	-	-	-	No	2008	No
VDOT	VP6v	Construct	N/A	VA 28 PPTA (Phase I) Interchange	@ VA 668 (McLearen Road)	SASM Interchange to VA 668 upgrade	2	1	6	6	No	2006	No
VDOT	VP6w	Construct	N/A	VA 28 PPTA (Phase I) Interchange	@ Sterling Boulevard	VA 606 to VA 625 upgrade	2	1	6	6	No	2006	No
VDOT	nrs	Construct	Pending	US 50 Traffic Circle	@ US 15 (Gilbert's Corner)		-	-	-	-	No	2010	Yes
VDOT	VP8q	Widen	Pending	US 50	VA 659 Relocated	VA 742 (Poland Rd.)	2	2	4/5	6	No	2010	No
VDOT	nrs	Reconstruct	Pending	US 50 Interchange	@ VA 120 (Glebe Road)		-	-	-	-	No	2010	No
VDOT	nrs	Reconstruct	Pending	US 50 Interchange	@ VA 27 (Washington Blvd.) @ Courthouse Road / 10th Street		-	-	-	-	No	2010	No
VDOT	VP8o	Reconstruct	Pending	US 50 Interchange			-	-	-	-	No	2007	Yes
VDOT	VP10ob	Widen	Pending	VA 123 (Dolley Madison Blvd.)	DTR Ramps	VA 694 (Great Falls St.)	2	2	4	6	No	2010	No
VDOT	nrs	Construct	Approved	VA 123 Interchange	@ US 1		-	-	-	-	No	2008	Yes
VDOT	VP10g	Widen	Pending	VA 123	Route 1	Horner Road	2	2	4	6	No	2008	No
VDOT	VP10l	Widen	Pending	VA 123 (Occoquan River Bridge)	South Approach	VA 772 North	2	2	2	6	yes	2006	Yes
VDOT	VP12b	Widen	Approved	VA 234 (Dumfries Road)	Country Club Dr.	Eclipse Dr.	2	2	2	4	No	2006	Yes

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VDOT	VP12a	Widen	Pending	VA 234 (Dumfries Road)	Eclipse Dr.	Snowfall Dr.	2	2	2	4	Yes	2006	Yes
VDOT	VP12l	Widen	Approved	VA 234 (Dumfries Road)	VA 234 Bypass (at Limstrong, VA 649)	SCL of Manassas		2	2	4	No	2010	No
VDOT	VP12o	Construct	Pending	VA 234 (Manassas Bypass)	I-66	Loudoun County Line	-	2	-	4	No	2010	No
VDOT	nrs	Reconstruct	Pending	VA 236 (intersection/spot improvements)	Pickett Road	Lake Drive	2	2	4	4	No	2008	Yes
VDOT	nrs	Reconstruct	Pending	VA 236 EB	@ VA 620 (Braddock Road)		-	-	-	-	No	2006	Yes
VDOT	nrs	Reconstruct	Pending	VA 236 WB	@ VA 620 (Braddock Road)		-	-	-	-	No	2006	Yes
VDOT Urban													
VDOT	VU28c	Construct	Developer	Battlefield Parkway	Dulles Greenway	Sycolin Road	0	2	0	4	No	2006	No
VDOT	VU28d	Widen/upg	Pending	Battlefield Parkway / Lawson Rd.	Sycolin Road	Kincaid Boulevard	4	2	2	4	No	2010	Yes
VDOT	VU28da	Construct	Pending	Battlefield Parkway	Kincaid Boulevard	Route 7	0	2	0	4	No	2010	Yes
VDOT	VU28f	Construct	Pending	Battlefield Parkway	Fort Evans Road	Edwards Ferry Road	0	2	0	4	No	2010	No
VDOT	VU28a	Study	Pending	Battlefield Parkway	US 15 south of Leesburg	US 15 Bypass North	0	2	0	4/6	not coded	2010	No
VDOT	nrs	Construct	Pending	George Mason Blvd.	Univer. Dr @ Armstrong St.	Univ. Dr. @ Parking Entr.	0	4	0	2	No	2009	Yes
VDOT	VU35b	Construct	N/A	Mill Road Extension	Telegraph Rd.	DMV complex	-	3	-	2	No	2008	Yes
VDOT	VU30a	Widen	Pending	South Elden Street/Centreville Road	Worldgate Drive	Herndon Parkway	2	2	4	6	No	2006	Yes
VDOT	VU32	Widen	Pending	US 15 (South King Street)	Evergreen Mill Road	SCL of Leesburg	3	2	2	4	No	2007	Yes
VDOT	nrs	Construct	Approved	VA 28 Overpass & Interchg.	Overpass Norfolk-Southern RR B line	Interchange w/Wellington Rd.	2	2	4	4	No	2008	Yes
VDOT	VU6b	Widen	Approved	US 29 (Lee Highway)	Chain Bridge Road	Eaton Place	2	2	4	6	No	2010	Yes

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VDOT	VU29	Construct	Approved	VA 123 (Chain Bridge Road)	US 50	I-66	2	2	5	6	No	2010	Yes
VDOT	VU45	Widen	Approved	VA 234 (Dumfries Road)	South Corporate Limits	Hastings Drive	3	3	2	4	No	2010	No
VDOT	nrs	Widen	N/A	VA 234 (Sudley Road) 3rd NB lane	Dorsey Circle	Godwin Dr.	2	2	4	5	No	2006	No
VDOT	VU48b	Widen	Pending	Wellington Road	Godwin Drive	VA 28 (Nokesville Road)	3	3	2	4	No	2008	Yes
Arlington Secondary													
VDOT	AR26	Widen	Pending	N. Pershing Dr.	George Mason Dr.	VA 120	3	3	2	4	No	2010	No
VDOT	AR5a	Reconstruct	Pending	VA 244 (Columbia Pike)	Oakland St.	Washington Blvd.	2	2	4	4	No	2010	No
VDOT	AR19c	Reconstruct	Pending	Wilson Blvd.	N. Quincy	Washington Blvd.	2	2	4	4	No	2010	No
Fairfax Secondary													
VDOT	VSF2a	Widen	Pending	VA 608 (West Ox Road)	VA 6558 (Penderbrook Drive)	VA 6985 (Ox Trail)	3	3	2	4	No	2008	Yes
VDOT	VSF10e	Widen	Pending	VA 638 (Rolling Road)	VA 5297 (DeLong Dr.)	VA 6922 (Odell Street) / Fairfax County Parkway	3	3	2	4	No	2010	No
VDOT	FFX11a	Widen	Pending	VA 645 (Stringfellow Rd.)	US 50	VA 7100 (Fairfax County Parkway)	3	3	2	4	No	2010	No
VDOT	VSF18b	Widen	N/A	VA 657 (Centreville Road)	VA 8390 (Metrotech Dr.)	VA 668 (McLearen Road)	3	3	2	4	No	2008	No
VDOT	VSF18h	Widen	Pending	VA 657 (Centreville Road)	VA 608 (West Ox Rd)	VA 608 (Frying Pan Rd)	3	3	2	4	No	2009	Yes
VDOT	FFX17b	Widen	Pending	VA 666 (Monroe St.)	VA 665 (Fox Mill)	Herndon	3	3	2	6	No	2010	No
VDOT	VSF36	Relocate	N/A	VA 675 (Sunset Hills Rd.)	West of Edlin School	VA 675 (Crowell Road)	3	3	4	4	No	2010	No
VDOT	VSF24	Widen	N/A	VA 684 (Spring Hill Road)	VA 7 (Leesburg Pike)	VA 6034 (International Drive)	3	3	2	4	No	2007	Yes
VDOT	VSF25e	Widen	Pending	VA 7100 (Fairfax Co Pkwy HOV)	Rugby Rd.	US 50	2	2	4	4+2	No	2010	No

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VDOT	VSF25y	Upgrade/W	Pending	VA 7100 (Fairfax Co Pkwy HOV)	US 50	VA 7735 (Fair Lakes Pkwy)	2	5	4	4+2	No	2010	No
VDOT	VSF25z	Upgrade/W	Pending	VA 7100 (Fairfax Co Pkwy HOV)	VA 7735 (Fair Lakes Pkwy)	I-66	2	5	6	6+2	No	2010	No
VDOT	VSF25n	Construct	Approved	VA 7100 (Fairfax County Parkway)	VA 4600 (Fullerton Road)	VA 7900 (Franconia-Springfield Parkway)	0	1	0	6	No	2007	Yes
VDOT		Construct	Pending	VA 7100 Interchange	@ VA 7735 (Fair Lakes Pkwy) &	Monument Drive	2	5	-	-	No	2010	Yes
VDOT	VSF39	Widen	Pending	VA 7735 (Fair Lakes Pkwy) (3rd EB Lane)	VA 7100	Fair Lakes Circle	3	3	4	5	No	2010	No
VDOT	VSF26	Construct	Pending	VA 7900 HOV (Franconia-Springfield Parkway)	VA 7100 (Fairfax County Parkway)	VA 2677 (Frontier Drive)	5	5	-	2	No	2010	No
VDOT	FFX24c	Widen	Pending	VA 8460 (Stonecroft Blvd.)	VA 661 (Old Lee Rd.)	Willard Rd.	3	3	4	6	No	2010	No
Loudoun Secondary													
VDOT	VSL51	Construct	Pending	Atlantic Boulevard	VA 625 (Church Road)	VA 7	-	3	-	4	No	2008	No
VDOT	VSL10c	Construct	Pending	VA 607 (Loudoun County Pkwy)	VA 606 / VA 842	VA 772 / VA 607	-	3	-	4	No	2010	No
VDOT	VSL10ba	Widen	Pending	VA 607 (Loudoun County Pkwy)	VA 625 (Waxpool Road)	W&OD Trail	3	3	4	6	No	2010	No
VDOT	VSL10bb	Widen/Up grade	Pending	VA 607 (Loudoun County Pkwy)	W&OD Trail	Redskin Park Drive	4	3	2	6	No	2010	No
VDOT	VSL10bc	Widen/Up grade	Pending	VA 607 (Loudoun County Pkwy) (dirt road)	Redskin Park Drive	Gloucester Parkway	4	3	2	6	No	2010	No
VDOT	VSL10bd	Widen/Up grade	Pending	VA 607 (Loudoun County Pkwy)	Gloucester Parkway	VA 7	4	3	2	4	No	2007	No
VDOT	VSL12	Widen	Pending	VA 625 (Church Rd.)	VA 28	VA 637	3	3	2	4	Yes	2006	Yes
VDOT	VSL42	Widen/Up grade	Approved	VA 634 (Lockridge/Moran Road)	VA 606 (Old Ox Road)	Randolph Drive	4	3	2	4	No	2010	No
VDOT	VSL4d	Widen/Up grade	Pending	VA 659 (Belmont Ridge Road)	VA 659 Relocated	National Rec. & Park Ent.	4	3	2	4	No	2010	No
VDOT	VSL4e	Widen/Up grade	N/A	VA 659 (Gum Spring Rd.)	VA 620 (Braddock Road)	US 50	4	3	2	4	No	2006	No

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VDOT	VSL4f	Widen/Up grade	Pending	VA 659 (Gum Spring Rd.)	Prince William County Line	VA 620 (Braddock Road)	4	3	2	4	No	2010	No
VDOT	VSL40a	Widen	N/A	VA 901 (Claiborne Parkway)	VA 640 (Ashburn Farm Road)	W&OD Trail	4	3	2	4	No	2007	No
VDOT	VSL40b	Construct	N/A	VA 901 (Claiborne Parkway)	W&OD Trail	VA 7	0	3	0	4	No	2010	No
VDOT	nrs	Construct	Pending	VA 868 (Davis Dr.)	VA 606 (Old Ox Road)	VA 625 (Church Road)	-	4	-	4	No	2007	Yes
VDOT	VSL46	Construct	Pending	VA 1036 (Pacific Boulevard)	VA 606 (Old Ox Road)	Gloucester Parkway	-	3	-	4	No	2010	Yes
VDOT	VSL47	Widen/Up grade	N/A	River Creek Parkway	Riverside Parkway	VA 773 (Edwards Ferry Road)	4	3	2	4	No	2007	No
VDOT	VSL50	Widen/Up grade	Pending	VA 773 (Fort Evans Road)	Leesburg Town Limits	River Creek Parkway	4	3	2	4	No	2007	No
Prince William Secondary													
VDOT	VSP49b	Construct	Pending	Heathcote Boulevard	VA 676 (Catharpin Road)	US 15 (James Madison Highway)	0	3	0	4	No	2010	No
VDOT	VSP49	Construct	Pending	Heathcote Boulevard	US 29	VA 676 (Catharpin Road)	0	3	0	4	No	2010	No
VDOT	VSP54	Construct	N/A	North/South Road at Innovation	VA 840 (University Blvd.)	VA 674 (Wellington Road)/VA 660 (Bethlehem Road)	0	3	0	4	No	2010	Yes
VDOT	VSP39	Widen	Pending	Russell Road	I-95	Dunlap Avenue	4	3	2	4	No	2010	No
VDOT	VSP46b	Construct	Pending	VA 1566 (Sudley Manor Drive Extension)	VA 619 (Linton Hall Road)	VA 234 Bypass	0	4	0	4	No	2007	Yes
VDOT	VSP46	Construct	Pending	VA 1566 (Sudley Manor Drive Extension)	VA 234 Bypass	Chatsworth Drive	0	4	0	4	No	2007	No
VDOT	VSP2a	Widen/Up grade	Approved	VA 619 (Linton Hall Road)	US 29 (Lee Highway)	VA 675 (Glenkirk Road)	4	3	2	6	No	2006	Yes
VDOT	VSP2e	Widen/Up grade	Approved	VA 619 (Linton Hall Road)	VA 621 (Devlin Road)	VA 1566 (Sudley Manor Dr.)	4	3	2	4	No	2008	Yes
VDOT	VSP2b	Widen/Up grade	Approved	VA 619 (Linton Hall Road)	VA 675 (Glenkirk Road)	VA 621 (Devlin Road)	4	3	2	4	No	2006	No
VDOT	VSP3a	Widen/Up grade	N/A	VA 621 (Balls Ford Road)	VA 234 (Sudley Road)	Bethlehem Road	4	3	2	4	No	2010	No

**2004 CLRP AND FY2005-2010 TIP AIR QUALITY CONFORMITY INPUTS
PROJECTS WITH COMPLETION DATES BETWEEN 2006 AND 2010
(Highway and HOV)**

Agency	Project ID	Improv.	Environ. Review	Facility	From	To	Facility		Lanes		Under Const. or ROW acquired?	Compl. Date or Status	In TIP?
							from	to	from	to			
VDOT	VSP3b	Widen/Up grade	N/A	VA 621 (Balls Ford Road)	Bethlehem Road	VA 234 Bypass	4	3	2	4	No	2010	No
VDOT	VSP40a	Construct	Pending	VA 635 (Cherry Hill VRE Access Road)	US 1	Future VRE Station site	0	4	0	2	No	2007	Yes
VDOT	VSP5d	Widen	Pending	VA 640 (Minnieville Road)	VA 610 (Cardinal Drive)	VA 643 (Spriggs Road)	3	3	2	4	No	2006	Yes
VDOT	VSP15c	Widen	Pending	VA 640 (Minnieville Road)	VA 849 (Caton Hill Road)	VA 641 (Old Bridge Road)	3	3	2	4	No	2010	Yes
VDOT	Widen/Up grade	Widen	Pending	VA 784 (Rippon Boulevard Extension)	US 1 (Jefferson Davis Highway)	Rippon VRE Station	4	3	2	4	No	2010	No
VDOT	VSP56a	Construct	Pending	VA 840 (University Blvd.)	VA 674 (Wellington Road)	US 29 @ Ent. to Conway Robinson MSF	0	3	0	4	No	2006	Yes
FAMPO													
FAMPO	FAP5d	Widen		US 1	I-95	1 mile so. Of US 17 Bypass	2	2	4	6	No	2010	No
FAMPO	FAP6c	Widen		US 17 Bypass	I-95	Village Parkway	2	2	4	6	No	2010	No
FAMPO	FAS23a	Construct	Pending	VA 208 Bypass (Spotsylvania)	West of Ta River	East of Po River	0	3	0	2	ROW	2009	Yes
FAMPO	FAS23b	Construct	Pending	VA 208 Bypass (Spotsylvania)	East of Po River	West of Ni River	0	3	0	4	ROW	2007	Yes
FAMPO	nrs	Realign & Widen	EA compt	VA 208	Ni River	Po River			2	4	Yes	2010	Yes
STAFFORD COUNTY SECONDARY													
FAMPO	FAS7a	Widen	Compl.	VA 607	VA 626	VA 218	4	4	2	4	Yes	2006	Yes
FAMPO	FAS3c	Widen		VA 610 (Garrisonville Rd.)	VA 610 (existing 4 lane section)	VA 643	4	4	2	4	Yes	2008	Yes
FAMPO	FAS3da	Widen		VA 610 (Garrisonville Rd.)	US 1	VA 684 (Mine Rd.)	4	3	6	8	No	2008	Yes
FAMPO	FAS8	Reconstruct		VA 624	US 1	VA 626	4	4	2	4	No	2010	No
FAMPO	FAS5b	Widen		VA 630 (Courthouse Rd)	I-95	VA 648	4	4	2	4	No	2010	yes

**2004 CLRP AND FY2005-2010 TIP AIR QUALITY CONFORMITY INPUTS
PROJECTS WITH COMPLETION DATES BETWEEN 2006 AND 2010
(Highway and HOV)**

Agency	Project ID	Improv.	Environ. Review	Facility	From	To	Facility		Lanes		Under Const. or ROW acquired?	Complt. Date or Status	In TIP?
							from	to	from	to			
SPOTSYLVANIA COUNTY SECONDARY													
FAMPO	FAS22	Widen		VA 3 (Spotsylvania)	VA 1112	VA 626	2	2	4	6	No	2010	No
FAMPO	FAS18b	Widen		VA 620 (Harrison Rd)	I-95	US 1 Business			2	4	No	2010	Yes
FAMPO	FAS19	Widen		VA 636 (Hood Dr.)	US 1	VA 208	4	4	2	4	No	2010	
FAMPO	FAS20c	Widen		VA 639 (Bragg Rd.)	VA 618	VA 3	4	4	2	4	No	2008	Yes

2004 CLRP AND FY2005-2010 TIP AIR QUALITY CONFORMITY INPUTS PROJECTS WITH COMPLETION DATES BETWEEN 2006 AND 2010 (Transit)

Agency	Project ID	Improv.	Environ. Review	Facility	From	To	Under Const. or ROW acquired?	Complt. Date or Status	In TIP?
<i>District of Columbia</i>									
DCDOT		Reconstruct		K St. Busway	Mt. Vernon Sq./7th St. NW	Wash.Circle / 23rd St. NW		2008	
<i>Maryland</i>									
MTA		Construct		Southern MD Commuter Bus Initiative	Park-and-Ride lots and increase bus service	in the MD 5 corridor		2010	Yes
MDOT		Implement		ICC Corridor Bus Service Improvements				2010	
<i>Montgomery County</i>									
Mont.Co.				Norbeck Road Park and Ride	Norbeck Road at Georgia Avenue			2010	Yes
Mont.Co.				Randolph Road Bus Enhancement				2010	No
<i>Virginia</i>									
VDOT		Constru	Pending	Park-and-Ride Lot	VA 7900 (F-S Pkwy.) PnR	@ Backlick Road North	No	2006	Yes
VRE		Constru	Pending	VRE - Cherry Hill Commuter Rail Station	Cherry Hill	Prince William County	No	2006	Yes
VRE		Impleme	Pending	Service Improvements (Reduce Headways)	Fredericksburg and Manassas lines		No	2010	No

ATTACHMENT D



Maryland Department of Transportation
The Secretary's Office

Robert L. Ehrlich, Jr.
Governor

Michael S. Steele
Lt. Governor

Robert L. Flanagan
Secretary

James F. Ports, Jr.
Deputy Secretary

November 10, 2004

The Honorable Christopher Zimmerman
Chairman
National Capital Region Transportation Planning Board
Metropolitan Washington Council of Governments
777 North Capitol Street, N.E., Suite 300
Washington D.C. 20002-4239

Dear ~~Chairman~~ ^{Chris} Zimmerman:

As you are aware, the Maryland Department of Transportation (MDOT) requested that conformity analysis be performed on two different Constraint Long Range Plans (CLRP). The only difference between the two CLRPs was the alignment corridor for the Intercountry Connector (ICC) project.

Now that the analysis is complete, MDOT requests that TPB proceed with the CLRP that includes Corridor 1, Master Plan alignment, as a placeholder for the ICC, since the analysis generally demonstrated higher emission levels and therefore represented a "worst case" for air quality conformity purposes.

Thank you for your cooperation during this process. If you have any questions or concerns, please do not hesitate to contact Mr. Ron Spalding, Manager, Regional Planning and Programming at 410-865-1284, toll free at 1-888-714-1313 or by email rspalding@mdot.state.md.us.

Sincerely,

Marsha J. Kaiser, Director
Office of Planning & Capital Programming

cc: The Honorable Robert L. Flanagan, Secretary, MDOT
Mr. James F. Ports, Jr., Deputy Secretary, MDOT
Mr. Ron Spalding, Manager, Regional Planning and Programming, MDOT
TPB members