## Memorandum

Date: <i>Revised</i>	February 2, 2007 <i>February 13, 2007</i>
To:	TPB Technical Committee
From:	Daivamani Sivasailam Principal Transportation Engineer
	Jeffrey King Environmental Planner, COG DEP
Subject:	Transportation Control Measures (TCMs) and Vehicle-Based Measures in the 8-hour ozone SIP

## Background

The Metropolitan Washington Air Quality Committee (MWAQC) has been developing the Washington DC-MD-VA region's sate implementation plan (SIP) to meet the 8-hour ozone standard. MWAQC has been soliciting control strategies from local governments around the region, primarily to be included in a local "voluntary bundle" list in the SIP. In response to this request a number of control measures (area, point and mobile sources) have been submitted for consideration and inclusion in the SIP.

TPB had sent a letter to MWAQC in December in response to the project solicitation, offering to review the list of submitted projects and provide support in two areas: (1) to provide assistance in analyzing the measures to be consistent with the methodologies used in TERM analysis, and (2) to review the list to avoid duplication of credits in conformity and the SIP. In response to this request MWAQC accepted TPB's review and comment offer, and recommended that TPB and MWAQC technical committees work together in this regard to review and reach agreement on the handling of these SIP measures. The MWAQC letter also transmitted a preliminary list of measures which included a number of vehicle-based measures such as hybrid vehicles and heavy duty diesel vehicle retrofit projects.

## **Subcommittee Review**

The Travel Management Subcommittee met on January 23, 2007 and reviewed the letter and the preliminary list of vehicle-based control measures for inclusion in the SIP. The subcommittee directed staff to review the measures: 1) to identify any

projects for which credits were taken in past conformity assessments, and (2) to review the technical methods used in the estimation of potential emissions reductions to ensure consistency between conformity and the SIP.

### **TPB Technical Committee Review**

The TPB Technical Committee discussed the memorandum at its February 2, 2007 meeting and provided the following comments: The Committee agreed that even though the benefits from many of the projects in the voluntary bundle were small, once they are included in the bundle they should not be considered for conformity findings even if no benefits were associated with the projects as part of the SIP. They also agreed that the TPB reply to MWAQC should be explicit that they should not consider emissions reduction programs being administered by the Commuter Connections such as the regional Telework, Employer Outreach, etc.

### Local Government Initiatives Subcommittee

The MWAQC Technical Advisory Committee's Local Government Initiatives Subcommittee discussed the memorandum at its February 9, 2007 meeting and provided the following comments: there is not initial consensus among participating jurisdictions on whether local mobile measures should be included in the voluntary bundle for credit. Members understood the importance of having measures available to help demonstrate conformity should the need arise. Members also recognized that mobile measures represent a significant portion of the bundle and could be needed to backfill other underperforming measures. Local government representatives agreed to discuss this issue internally with transportation and environmental program staff to reach a final decision on handling of their respective mobile-source measures.

#### Status Report

Attachment 1 shows the list of preliminary projects submitted by the local governments for inclusion in the SIP. The list shows previous commitments in the 1-hour SIP and the new additions. The two categories of transportation projects are "low emission vehicle (LEV) purchases" and "diesel retrofits". Comparing the list against the TERM Tracking Sheet indicated a few projects for which credits were taken during previous conformity assessments. The LEV purchase category has hybrid vehicles, CNG vehicles, E-85 vehicles and other unknown generic LEVs. Under this category, credits were previously taken for CNG vehicle projects in the City of Greenbelt. The diesel retrofits category includes diesel hybrid electric buses, CNG buses, direct oxidation catalysts and chip reflash for school, transit buses, and class 8 trucks, diesel particulate filters for transit buses. Under the diesel retrofits category credits were taken for all the CNG transit buses in Montgomery County. If the local governments decide to advance these projects in the SIP they will be removed from consideration for conformity credits.

## Low emission vehicle purchases

In order to take emissions credit, the emissions from the LEV vehicles have to be lower than the Federal Tier 2 vehicle emission standards. Similarly E-85 vehicles do not satisfy this requirement and hence should not be considered for emissions credit. In the LEV list, Montgomery County, City of Greenbelt and the District of Columbia's LEV vehicles need additional information such as type of vehicle that the jurisdictions will be purchasing to estimate the potential benefits of these low emission vehicles. Additionally some of the vehicles in the City of Greenbelt were introduced prior to 2002 and will not be eligible since the base year for the 8-hour ozone SIP is 2002.

Hybrid vehicle purchases under the LEV category for Arlington County, Alexandria, Falls Church, Loudoun County, Prince George's County, M-NCPPC, and Fairfax Counties appear to be new submissions; they will be analyzed using a template developed by VDOT.

Attachment 2 shows the detailed analysis of staff review described in the previous paragraphs and illustrates and DTP staff findings whether emissions credit will be available or not for each project.

# **Diesel Retrofits**

Emissions credit will be estimated for all the school bus and transit bus retrofits as well as the hybrid transit buses in Montgomery County since no credits were taken in the past.

# Next Steps

Staff finished preliminary emissions analysis and hope to complete further quality assurance of the emissions work in the next couple of days. A memorandum will be presented to the TPB on February 21, 2007 and subsequent formal transmission to MWAQC.

#### DRAFT (January 12, 2007) Attachment 1. Summary of Potential Voluntary Measures Commitments (2002-2009) Washington, DC-MD-VA Ozone Nonattainment Area

Prince George's County         7.611.80           Arington County         0.5000           District of Columbia         28.000.000           Clear         28.000.000           Clear         28.000.000           Clear         28.000.000           Clear         28.000.000           Clear         28.000.000           Clear         28.000.000           Montgomery County         31.9           Printic of Columbia         -           District of Columbia         -           District of Columbia         -           VDOT         0         8           WDOT         0         8           WDOT         0         2           WDOT         0         2           WDOT         0         2           WDOT         0         2           Montgonery County         0         2           Arington County         0         0         0           Flards County         0         0         0           Flards County         0         0         0           Cliv of Falls Church         0         0         0           Cliv of Falls Church         0			
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City of Alexandria         0           Calvert County         0           Total         0           Diesel Retrofits (# of vehicles)            Fairfax County School Bus         1,329           Fairfax County Class 8 Trucks         0           Fairfax County DOT (DPF)         148           Fairfax County DOT (dling)            Fairfax County DOT (dling)         0           Montgomery County         0           Montgomery County         0           Cow-Emission Vehicle Purchases (# of vehicles)            Amotgomery County         32           Montgomery County         32           Montgomery County         32           Montgomery County         3           Prince George's County         3           M-NCPPC Prince George's County         3           M-NCPPC Prince George's         0           District of Columbia         0           City of Fails Church         0           Total         0           M-NCPPC Prince George's         11           Low-Uoc Paint (# of gallons per ozone season day)         1           M-NCPPC Prince George's         16           M-NCPPC Prince George's         16			
Calvert County         0           Total         0           Diesel Retrofits (# of vehicles)         0           Fairfax County School Bus         1,329           Fairfax County Class 8 Trucks         0           Fairfax County Class 8 Trucks         0           Fairfax County DOT (DPF)         148           Fairfax County DOT (Idling)         0           Montgomery County         0           Loudoun County         0           Arlington County         0           Arlington County         0           Fairfax County DOT (Idling)         0           Montgomery County         0           Arlington County         0           Arlington County         0           Fairfax County         32           Montgomery County         32           Montgomery County         3           District of Columbia         0           City of Alexandria         0           City of Fails Church         0           City of Alexandria         0           City of Alexandria         0           MontCPPC Prince George's         16           Fairfax County         6           MontoPPC Paint (# of gallons per ozone season day) <td></td> <td></td> <td></td>			
Total     0     8.360.67       Diesel Retrofits (# of vehicles)     1320     Comple       Fairfax County School Bus     1,320     Comple       Fairfax County Fire Equipment     0     1       Fairfax County DOT (diling)     148     1       Fairfax County DOT (diling)     0     2       Montgomery County     0     2       Loudoun County     0     2       Total     0     1       Annigoton County     0     2       Montgomery County     0     2       Loudoun County     0     2       Montgomery County     0     1       Fairfax County     0     1       Fairfax County     0     1       Fringe George's County     3     1       Prince George's County     3     1       Prince George's County     0     1       District of Columbia     0     6       City of Fails Church     0     1       Icow-VOC Paint (# of gallons per ozone season day)     Prince George's County       Prince George's County     5       M-NCPPC Prince George's     40       Maira     0.1       City of Alexandria     0.1       City of Greenbelt     0.1       City of Greenbelt			
Diesel Retrofits (# of vehicles) Fairfax County School Bus Fairfax County Class 8 Trucks 0 1,329 Comple Fairfax County Class 8 Trucks 0 1 Fairfax County DOT (JOPF) 148 Fairfax County DOT (JOPF) 148 Fairfax County DOT (JOPF) 148 1 Fairfax County DOT (JOPF) 148 1 Total  Low-Emission Vehicle Purchases (# of vehicles)  Arlington County 0 Fairfax County 1 Fairfax Co	Calvert County	0	-
Diesel Retrofits (# of vehicles) Fairfax County School Bus Fairfax County Class 8 Trucks 0 1,329 Comple Fairfax County Dot (UPF) Total  Loudoun County 0 Fairfax County Dot (UPF) Fairfax County Dot (UPF) Fairfax County Dot (UPF) Total  Loudoun County 0 Fairfax County Dot (UPF) Fairfax County Fairfax C	Tatal		0.000.075
Fairfax County School Bus     1,329     Comple       Fairfax County Fire Equipment     0     1       Fairfax County DOT (DPF)     148     1       Fairfax County DOT (DPF)     148     1       Fairfax County DOT (diling)     0     2       Montgomery County     0     2       Loudoun County     0     2       Total     0     1       Arlington County     0     2       Intervention County     0     2       Arlington County     0     2       Intervention County     0     1       Arrington County     0     1       Fairfax County     32     1       Arrington County     0     1       Prince George's County     3     1       Prince George's County     0     1       District of Columbia     0     1       City of Alexandria     0     1       City of Alexandria     0     1       City of Greenbelt     0     0 <t< td=""><td>Iotal</td><td>0</td><td>8,300,075</td></t<>	Iotal	0	8,300,075
Fairfax County School Bus     1,329     Comple       Fairfax County Fire Equipment     0     1       Fairfax County DOT (DPF)     148     1       Fairfax County DOT (DPF)     148     1       Fairfax County DOT (diling)     0     2       Montgomery County     0     2       Loudoun County     0     2       Total     0     1       Arlington County     0     2       Intervention County     0     2       Arlington County     0     2       Intervention County     0     1       Arrington County     0     1       Fairfax County     32     1       Arrington County     0     1       Prince George's County     3     1       Prince George's County     0     1       District of Columbia     0     1       City of Alexandria     0     1       City of Alexandria     0     1       City of Greenbelt     0     0 <t< td=""><td></td><td></td><td></td></t<>			
Fairfax County Class 8 Trucks         0         1           Fairfax County DOT (DPF)         148         1           Fairfax County DOT (Idling)         0         2           Montgomery County         0         2           Loudoun County         0         2           Total         0         2           Low-Emission Vehicle Purchases (# of vehicles)         0         2           Arlington County         0         0         2           Montgomery County         0         0         1           Montgomery County         5         1         1           Montgomery County         5         1         1           Montgomery County         5         1         1           Montgomery County         0         0         1           Montgomery County         0         0         1           District of Columbia         0         0         1           District of Columbia         0         0         1           City of Alexandria         0         1         1           Low-VOC Paint (# of gallons per ozone season day)         1         1         1           M-NCPPC Prinice George's         15         1	Diesel Retrofits (# of vehicles)		
Fairfax County Fire Equipment         0           Fairfax County DOT (fdling)         148           Montgomery County         0         2           Loudoun County         0         2           Total         0         2           Low-Emission Vehicle Purchases (# of vehicles)         0         1           Fairfax County         0         1           Prince George's County         32         1           Prince George's County         3         1           Montgomery County         0         2           Loudoun County         0         1           Prince George's County         3         1           Mintogomery County         0         2           Loudoun County         0         3           District of Columbia         0         3           City of Greenbelt         0         3           City of Falls Church         0         3           MoCPC Prince George's County         5         15           Fairfax County         5         15           Fairfax County         40         0           MDOT         502.5         0           MDOT         502.5         0			Complete
Fairfax County DOT (DPF)         148           Fairfax County DOT (idling)         0           Montgomery County         0           Total         0           Low-Emission Vehicle Purchases (# of vehicles)         0           Arlington County         0           Fairfax County         0           Arlington County         0           Fairfax County         32           Montgomery County         5           Prince George's County         3           M-NCPPC Prince George's         0           District of Columbia         0           City of Alexandria         0           City of Greenbelt         0           City of Fails Church         0           M-NCPPC Prince George's         16           Prince George's County         5           M-NCPPC Prince George's         16           Prince George's County         5           M-NCPPC Prince George's         16           Fairfax County         40           MDOT         502.5           MDOT         0.1           City of Alexandria         0.1           City of Alexandria         0.1           City of Alexandria         0.1	Fairfax County Class 8 Trucks		113
Fairfax County DOT (idling)       0       2         Montgomery County       0       2         Total       0       2         Low-Emission Vehicle Purchases (# of vehicles)       0       1         Arlington County       0       0         Fairfax County       0       1         Prince George's County       32       1         Montgomery County       5       1         Prince George's County       3       1         M-NCPPC Prince George's       0       1         Loudoun County       0       0       1         District of Columbia       0       6       1         City of Alexandria       0       1       1         Low-VOC Paint (# of gallons per ozone season day)       1       1         Prince George's County       5       1       1         MoVC Paint (# of gallons per ozone season day)       0       1       1         MoDOT       502.5       0       1       1         MDOT       502.5       0       0       0         City of Alexandria       0       0       0       0         City of Greenbelt       0       0       0       0	Fairfax County Fire Equipment		50
Montgomery County         0         2           Loudoun County         0         2           Total         0         2           Low-Emission Vehicle Purchases (# of vehicles)         0         1           Arlington County         0         1           Fairfax County         5         1           Montgomery County         5         1           Prince George's County         3         1           M-NCPPC Prince George's         0         1           Loudoun County         0         1           District of Columbia         0         1           City of Greenbelt         0         1           City of Greenbelt         0         1           Low-VOC Paint (# of gallons per ozone season day)         1         1           Prince George's County         5         15           M-NCPPC Prince George's         15         15           M-NCPPC Prince George's         15         15           M-NCPPC Prince George's         15         16           Fairfax County         40         0.1         16           MDOT         502.5         0.1         17           City of Greenbelt         0.1         0.1	Fairfax County DOT (DPF)	148	
Loudoun County     0     22       Tota/     0     1       Arington County     0     1       Fainfax County     32     1       Montgomery County     3     1       Prince George's County     3     1       MuNCPPC Prince George's     0     3       Loudoun County     0     3       MNCPPC Prince George's     0     3       Loudoun County     0     3       District of Columbia     0     3       City of Alexandria     0     3       Tota/     40     11       Low-VOC Paint (# of gallons per ozone season day)     1       Prince George's County     5       MNOPPC Prince George's     15       Fainfax County     5       M-NCPPC Prince George's     15       Fainfax County     5       MDOT     502.5       Arlington County     0.1       City of Greenbelt     0.1       Calvert County <td< td=""><td>Fairfax County DOT (idling)</td><td></td><td>95</td></td<>	Fairfax County DOT (idling)		95
Total       0         Low-Emission Vehicle Purchases (# of vehicles)       0         Arlington County       0         Fairfax County       32         Montgomery County       5         Prince George's County       3         M-NCPPC Prince George's       0         Loudoun County       0         District of Columbia       0         City of Alexandria       0         City of Greenbelt       0         City of Fails Church       0         Total       0         VOC Paint (# of gallons per ozone season day)       0         Prince George's County       40         M-NCPPC Prince George's       15         M-NCPPC Prince George's       15         Fairfax County       40         MDOT       502.5         Arlington County       0.1         City of Greenbelt       0.1         Calvert County       582.5       0.1	Montgomery County	0	253
Low-Emission Vehicle Purchases (# of vehicles) Arlington County Fairfax County Fairfax County Montgomery County Fairfax County M-NCPPC Prince George's Cudoun County O District of Columbia O City of Alexandria O City of Alexandria O City of Fails Church O Total V C Paint (# of gallons per ozone season day) Prince George's O M-NCPPC Prince George's O City of Alexandria City of Greenbelt City of Greenbelt City of Alexandria O City of Greenbelt City of County City of Greenbelt City of County	Loudoun County	0	237
Arlington County     0       Fairfax County     32       Montgomery County     5       Prince George's County     3       M-NCPPC Prince George's     0       District of Columbia     0       City of Alexandria     0       City of Falls Church     0       Total     0       Prince George's County     0       Optimized Science     0       Optimized Science     0       City of Falls Church     0       Total     40       Low-VOC Paint (# of gallons per ozone season day)     Prince George's County       Prince George's County     5       M-NCPPC Prince George's     15       Fairfax County     40       MDOT     502.5       Arlington County     0.1       City of Alexandria     0.1       City of Greenbelt     0.1       Calvert County     582.5       Montgomery County     0       Montgomery County     0       Montgomery County     0       Nox     Not	Total		
Arlington County     0       Fairfax County     32       Montgomery County     5       Prince George's County     3       M-NCPPC Prince George's     0       District of Columbia     0       City of Alexandria     0       City of Falls Church     0       Total     40       Prince George's County     5       M-NCPPC Prince George's     0       City of Falls Church     0       City of Falls Church     0       Total     40       Prince George's County     5       M-NCPPC Prince George's     15       Fairfax County     5       M-NCPPC Prince George's     15       Prince George's County     5       M-NCPPC Prince George's     0       MDOT     502.5       Arlington County     0       City of Alexandria     0       City of Greenbelt     0       Calvert County     0       Total     582.5       Column     0       Enhanced Enforcement (solvent machine replacement/idling)       Montgomery County     0       Nox     Not			
Arlington County     0       Fairfax County     32       Montgomery County     5       Prince George's County     3       M-NCPPC Prince George's     0       District of Columbia     0       City of Alexandria     0       City of Falls Church     0       Total     0       Prince George's County     0       Optimized Science     0       Optimized Science     0       City of Falls Church     0       Total     40       Low-VOC Paint (# of gallons per ozone season day)     Prince George's County       Prince George's County     5       M-NCPPC Prince George's     15       Fairfax County     40       MDOT     502.5       Arlington County     0.1       City of Alexandria     0.1       City of Greenbelt     0.1       Calvert County     582.5       Montgomery County     0       Montgomery County     0       Montgomery County     0       Nox     Not	ow-Emission Vehicle Purchases (# of vehicles)		
Fairfax County     32       Montgomery County     5       Prince George's County     3       M-NCPPC Prince George's     0       Loudoun County     0       District of Columbia     0       City of Alexandria     0       City of Alexandria     0       City of Falls Church     0       Total     40       Prince George's County     5       M-NCPPC Prince George's     11       Low-VOC Paint (# of gallons per ozone season day)     0       Prince George's County     5       M-NCPPC Prince George's     15       Fainfax County     502.5       MDOT     502.5       Arlington County     0.1       City of Greenbelt     0.1       Calvert County     0.1       Total     582.5       Montgomery County     0       Ibanced Enforcement (solvent machine replacement/idling)     18 units       Montgomery County     0     18 units       Loudoun County     No     No		0	69
Montgomery Ćounty     5     1       Prince George's County     3       M-NCPPC Prince George's     0       Loudoun County     0       District of Columbia     0       City of Greenbelt     0       City of Falls Church     0       Total     40       H-NCPPC Prince George's     15       Frince George's County     5       M-NCPPC Prince George's     15       Fairfax County     5       M-NCPPC Prince George's     0.0       M-NCPPC Prince George's     15       Fairfax County     5       M-NCPPC Prince George's     0.0       MDOT     502.5       Arlington County     0.1       City of Greenbelt     0.1       Calvert County     0.1       Total     562.5       Montgomery County     0       Montgomery County     0       Nox     Not			65
Prince George's County     3       M-NCPPC Prince George's     0       District of Columbia     0       City of Alexandria     0       City of Falls Church     0       Total     40       Low-VOC Paint (# of gallons per ozone season day)     Prince George's County       M-NCPPC Prince George's     15       M-NCPPC Prince George's     15       Paintage George's County     5       M-NCPPC Prince George's     15       Paintage George's County     5       M-NCPPC Prince George's     16       Fairfax County     40       MDOT     502.5       Arlington County     0.1       City of Alexandria     0.1       City of Greenbelt     0.1       Calvert County     0.1       Total     582.5       Montgomery County     0       Montgomery County     0       Ibudoun County     0       Nox     Nox	Montgomery County		176
M-NCPPC Prince George's         0           Loudoun County         0           District of Columbia         0           City of Alexandria         0           City of Alexandria         0           City of Alexandria         0           City of Greenbelt         0           City of Fails Church         0           Total         40           Honce George's County         5           M-NCPPC Prince George's         15           Fairfax County         5           M-NCPPC Prince George's         15           Fairfax County         502.5           Arlington County         0.1           City of Greenbelt         0.1           City of Alexandria         0.1           City of Greenbelt         0.1           City of Greenbelt         0.1           City of Greenbelt         0.1           City of Greenbelt         0.1           Calvert County         0.1           Total         562.5           District of County         0           Enhanced Enforcement (solvent machine replacement/idling)         18 units           Loudoun County         No Idling Policy	Prince George's County		8
Loudoun County         0           District of Columbia         0           District of Columbia         0           City of Greenbelt         0           City of Falls Church         0           Total         40           Low-VOC Paint (# of gallons per ozone season day)         0           Prince George's County         5           M-NCPPC Prince George's         15           Fairfax County         40           MDOT         502.5           Arlington County         0.1           City of Greenbelt         0.1           Calvert County         0.1           Total         562.5           O.1         0.1           Calvert County         0.1           Total         0.1           Coludoun County         0.1           Notgomery County         0           Not Not         Notaling Policy	M.NCRPC Prince George's		23
District of Columbia         0         6           City of Alexandria         0         1           City of Greenbelt         0         1           City of Falls Church         0         1           Total         40         11           Low-VOC Paint (# of gallons per ozone season day)         1         1           Prince George's County         5         1           M-NCPPC Prince George's         15         1           Fainfax County         40         0           MDOT         502.5         0           Arlington County         0.1         0.1           City of Alexandria         0.1         0.1           City of Alexandria         0.1         0.1           City of Greenbelt         0.1         0.1           Calvert County         582.5         0.1           Total         582.5         0.1           Enhanced Enforcement (solvent machine replacement/idling)         18 units           Loudoun County         0         18 units           Loudoun County         0         18 units			23
City of Alexandria         0           City of Fails Church         0           City of Fails Church         0           Total         40           Total         40           Prince George's County         5           M-NCPPC Prince George's         15           Fairfax County         40           MDOT         502.5           Arlington County         0.1           City of Greenbelt         0.1           City of Greenbelt         0.1           City of Greenbelt         0.1           Calvert County         0.1           Calvert County         0.1           Total         562.5           Enhanced Enforcement (solvent machine replacement/idling)         18 units           Ioudoun County         0           Nox         0			
City of Greenbelt         0           City of Falls Church         0           Total         40           Low-VOC Paint (# of gallons per ozone season day)         11           Low-VOC Paint (# of gallons per ozone season day)         5           Prince George's County         5           M-NCPPC Prince George's         15           Fairfax County         40           MDOT         502.5           Arlington County         0.1           City of Alexandria         0.2           City of Greenbelt         0.1           City of Greenbelt         0.1           City of Greenbelt         0.1           Calvert County         0.1           Total         562.5           Data         0.1           Calvert County         0.1           Total         0.2           Enhanced Enforcement (solvent machine replacement/idling)         18 units           Loudoun County         0         18 units           Loudoun County         0         18 units           Loudoun County         Nox         10			678
City of Fails Church     0       Total     40       Low-VOC Paint (# of gallons per ozone season day)     11       Prince George's County     5       M-NCPPC Prince George's     15       Fairfax County     40       MDOT     502.5       Arlington County     0.1       City of Alexandria     0.1       City of Greenbelt     0.1       Calvert County     582.5       Total     582.5       Enhanced Enforcement (solvent machine replacement/idling)     18 units       Montgomery County     0       Loudoun County     0       Nox     0	City of Alexandria		56
Total         40         11           Low-VOC Paint (# of gallons per ozone season day)         5         11           Prince George's County         5         15           M-NCPPC Prince George's         15         15           Fairfax County         40         40           MDOT         502.5         0.1           Arlington County         0.1         0.1           City of Alexandria         0.1         0.1           Calvert County         0.1         0.1           Calvert County         0.1         0.1           Total         562.5         0.1           Enhanced Enforcement (solvent machine replacement/idling)         No Idling Policy           Montgomery County         0         18 units           Loudoun County         No Idling Policy         No Idling Policy	City of Greenbelt		7
Low-VOC Paint (# of gallons per ozone season day)     5       Prince George's County     5       M-NCPPC Prince George's     15       Fairfax County     40       MDOT     502.5       Arlington County     0.1       City of Alexandria     0.1       Calvert County     0.1       Total     582.5       Enhanced Enforcement (solvent machine replacement/idling)     18 units       Montgomery County     0       Its units     No Idling Policy			7
Prince George's County         5           M-NCPPC Prince George's         15           Fairfax County         40           MDOT         502.5           Arlington County         0.1           City of Alexandria         0.1           City of Greenbelt         0.1           Calvert County         0.1           Total         562.5           Enhanced Enforcement (solvent machine replacement/idling)         18 units           Montgomery County         0           Loudoun County         0           Nox         Nox	l otal	40	1113
Prince George's County         5           M-NCPPC Prince George's         15           Fairfax County         40           MDOT         502.5           Arlington County         0.1           City of Alexandria         0.1           City of Greenbelt         0.1           Calvert County         0.1           Total         562.5           Montgomery County         0.1           Enhanced Enforcement (solvent machine replacement/idling)         18 units           Montgomery County         0           Loudoun County         No Idling Policy			
M-NCPPC Prince George's         15           Fairfax County         40           MDOT         502.5           Arlington County         0.1           City of Alexandria         0.1           City of Greenbelt         0.1           Calvert County         0.1           Total         562.5           Enhanced Enforcement (solvent machine replacement/idling)         18 units           Montgomery County         0           Loudoun County         No Idling Policy			
M-NCPPC Prince George's         15           Fairfax County         40           MDOT         502.5           Arlington County         0.1           City of Alexandria         0.1           City of Greenbelt         0.1           Calvert County         0.1           Total         562.5           Enhanced Enforcement (solvent machine replacement/idling)         18 units           Montgomery County         0           Loudoun County         No Idling Policy		5	
Fairfax County         40           MDOT         502.5           Arlington County         0.1           City of Alexandria         0.1           City of Greenbelt         0.1           Calvert County         0.1           Total         582.5           Enhanced Enforcement (solvent machine replacement/idling)         18 units           Montgomery County         0           Loudoun County         No Idling Policy			
MDOT         502.5           Arlington County         0.1           City of Alexandria         0.1           City of Greenbelt         0.1           Calvert County         0.1           Calvert County         0.1           Total         0.1           Enhanced Enforcement (solvent machine replacement/idling)         0.18 units           Montgomery County         0.18 units           Loudoun County         No Idling Policy           TOTAL         Nox			
Arlington County     0.1       City of Alexandria     0.1       City of Greenbelt     0.1       Calvert County     0.1       Total     0.2       Enhanced Enforcement (solvent machine replacement/idling)     18 units       Montgomery County     0       Loudoun County     No Idling Policy       NOx     NOx			
City of Alexandria 0.1 City of Greenbelt 0.1 Calvert County 0.1 Total 562.5 0.1 Enhanced Enforcement (solvent machine replacement/idling) Montgomery County 0 18 units Loudoun County No Idling Policy TOTAL NOx			
City of Greenbelt     0.1       Calvert County     0.1       Total     0.1       Total     562.5       Enhanced Enforcement (solvent machine replacement/idling)       Montgomery County     0       Loudoun County     0       No Idling Policy	Arlington County		0.00
City of Greenbelt     0.1       Calvert County     0.1       Total     0.1       Total     562.5       Enhanced Enforcement (solvent machine replacement/idling)       Montgomery County     0       Loudoun County     0       No Idling Policy			
Calvert County     0.       Total     582.5       Enhanced Enforcement (solvent machine replacement/idling)       Montgomery County     0       Loudoun County     0       TOTAL     No Idling Policy	City of Alexandria		0.00
Total 0.: Total 0.: Total 582.5 0.: Enhanced Enforcement (solvent machine replacement/idling) Montgomery County 0 18 units Loudoun County 0 18 units Not Idling Policy	O'tu of Occashalt		
Total     562.5     0.1       Enhanced Enforcement (solvent machine replacement/idling)     0     18 units       Montgomery County     0     18 units       Loudoun County     No Idling Policy	City of Greenbelt		0.00
Total     562.5     0.1       Enhanced Enforcement (solvent machine replacement/idling)     0     18 units       Montgomery County     0     18 units       Loudoun County     No Idling Policy	Calvart Caurty		
Finhanced Enforcement (solvent machine replacement/idling)  Montgomery County  Loudoun County  TOTAL  NOx			0.00
Montgomery County         0 18 units           Loudoun County         No Idling Policy           FOTAL         NOx	Total	562.5	0.00
Montgomery County     0 18 units       Loudoun County     No Idling Policy       FOTAL     NOx			
Montgomery County         0 18 units           Loudoun County         No Idling Policy           FOTAL         Nox	Enhanced Enforcement (solvent machine replacemen	t/idling)	
FOTAL Nox			18 units
TOTAL NOx	Montgomery County		
NOx			ING IG ING POLICY
NOx			No Idling Policy
	Loudoun County		No Idling Policy
VOC	Loudoun County TOTAL		

#### DRAFT 1/12/07

#### ATTACHMENT 2

#### Low-Emission And Diesel Retrofit (Heavy Duty) Vehicles

				,,,		
		Number of	Yrof			
		Veh.	Purchase	Comment		
Arling	ton County					
	Toyota Prius Hybrid	58	2002+	creditable		
	Ford Escape Hybrid	5	2004+	creditable		
	Chevy Silverado	6	2004+	creditable		
Fairfax	County					
	Toyota Prius Hybrid	12	2002	creditable		
	Toyota Prius Hybrid	20	2003	creditable		
	Toyota Prius Hybrid	27	2004	creditable		
	Ford Escape Hybrid	29	2005	creditable		
	Ford Escape Hybrid	1	2006	creditable		
	Plug-in Conversion	1	2006	creditable		
HD	School Bus DOC alone	576		creditable		
HD	School Bus DOC + Chip Reflash	436		creditable		
HD	Transit bus (DPF)	95		no Nox benefit		
HD	Fairfax County DOT (idling)	95		Need additional information		
HD	Fire Truck and Other Class 8 (DOC)	163		creditable		
	anna Caurta					
HD	omery County Diesel/ Electric Hybrid Transit Bus*	5	2006	creditable		
HD	Diesel/Electric Hybrid Transit Bus*	9	2006	creditable		
HD	CNG Transit Bus*	73		credited in conformity		
HD	School Bus (DOC, Chip Reflash) E85 Ethanol	253 89	varies	creditable		
	E65 Ethanol	08	2002-2005	veh will not provide additional benefit over TIER II		
Prince	George's County					
	Toyota Prius Hybrid	1	2003	creditable		
	Toyota Prius Hybrid	1	2003	creditable		
	Toyota Prius Hybrid	1	2003	creditable		
	Honda Civic Hybrid	2	2003	creditable		
	Honda Civic Hybrid	1	2004	creditable		
	Honda Civic Hybrid	1	2004	creditable		
	Honda Civic Hybrid	1	2005	creditable		
	Honda Civic Hybrid	1	2006	creditable		
	Ford Escape Hybrid	2	2000	creditable		
	Ford Escape Hybrid	2	2007	creditable		
M-NCF	PC Prince George's					
	Honda Civic Hybrid	1	2004	creditable		
	Honda Civic Hybrid	7	2005	creditable		
	Honda Civic Hybrid	3	2006	creditable		
	Honda Civic Hybrid	3	2006	creditable		
	Ford Escape Hybrid	4	2006	creditable		
	Ford Escape Hybrid	5	2006	creditable		
	Unknown	2/yr		not enough information		
		- /.				
Loudo	un County					
	Ford Escape Hybrid	25	2005-2006	creditable		
HD	School Bus (DOC alone)	237		creditable		
Distric	t of Columbia					
	LEV/AFV	201	2002	not enough information		
	LEV/AFV	173	2003	not enough information		
	LEV/AFV	77	2004	not enough information		
	LEV/AFV	222	2005	not enough information		
	LEV/AFV	461	2006	not enough information		
	al					
City of	Alexandria					
	Mid and small sedans and SUVs, flexfuel E85	40	2003	veh will not provide additional benefit over TIER II		
	Toyota Prius Hybrid	3	2003	creditable		
	Toyota Prius Hybrid	10	2005	creditable		
	Toyota Prius Hybrid	1	2005	creditable		
	Ford Escape Hybrid	1	2005	creditable		
City of Greenbelt						
ony of	CNG Sedan	1	2005	credited in conformity		
	CNG Sedan	1	2005	credited in conformity		
	CNG Van	1	1997	credited in conformity		
	CNG Vans	3		before base year		
	CNG Pick-up Truck	1	2004	credited in conformity		
	Flex-Fuel Sedan	1	2004	veh will not provide additional benefit over TIER II		
	Low Emission Vehicle	1	2008	not enough information		
	Low Emission Vehicle	1	2009	not enough information		
				9		
City of	Falls Church					
	Ford Escape Hybrid	1	2006	creditable		
	Honda Civic Hybrid	1	2006	creditable		
	Chevy Silverado Hybrid	3	2007	creditable		
	Ford Escape Hybrid	2	2007-2008	creditable		