

DRAFT

Table 1. Master List of Potential Control Measures for 8-hour Ozone SIP

List #	Measure	Description	Emission Reduction Potential	Feasibility	Cost	Timeframe (2007 or 2009)
Stationary Sources						
S 1	Low NOx Fuel Oil for Stationary Sources	Require oil-burning stationary sources to burn ThermaNOx, a low-NOx No. 2 fuel oil emulsion, during ozone season.				
S 2	OTC Model Rule: Additional NOx Reductions	Adopt OTC Additional NOx Controls Rule throughout nonattainment area (applies to industrial boilers, stationary combustion turbines and reciprocating engines, emergency generators, load shavers and cement kilns).				
S 3	Clean Air Interstate Rule (CAIR)	Implement EPA's Clean Air Interstate Rule.				
S 4	Clear Skies Act	Implement Clear Skies Legislation.				
S 5	Plant RACT/Technology-Based Approach	Identify and Require Additional Plant-Specific Emission Reduction Technologies.				
S 6	Regional Multipollutant Strategy	Adopt OTC Multipollutant Model Rule.				
S 7	State Multipollutant Legislation	Adopt State Multipollutant Legislation.				
S 8	VOC Cap and Trade for Stationary Sources	Implement cap and trade program for VOC sources in region.				
S 9	Expand NOx RACT to Upwind Counties	Expand NOx RACT Requirements.				
S 10	Expand VOC RACT to Upwind Counties	Expand VOC RACT Requirements.				
S 11	Wind Energy Purchases	Increase Purchases of Renewable Energy by Government and the Private Sector, with Commensurate Retirement of EGU NOx Allowances.				
S 12	Solar Photovoltaic Programs	Increase Purchases of Renewable Energy by Government and the Private Sector, with Commensurate Retirement of EGU NOx Allowances.				
S 13	Renewable Portfolio Standards	Increase Purchases of Renewable Energy by Government and the Private Sector, with Commensurate Retirement of EGU NOx Allowances.				
S 14	Energy Efficiency Programs	Increase Adoption of Energy Efficient Technology by Government and the Private Sector with Commensurate Retirement of EGU NOx Allowances.				
S 15	Green Building Code Program	Establish energy efficiency standards for building codes, with Commensurate Retirement of EGU NOx Allowances.				
S 16	Energy Efficiency Standards	Establish requirements for minimum energy efficiency, with Commensurate Retirement of EGU NOx Allowances.				
S 17	LED Traffic Signal Retrofit Program	Increase use of more energy efficient LED traffic signals.				
S 18	Enhanced Enforcement/Rule Compliance at Existing Stationary Sources	Step up enforcement of and compliance with existing rules for emissions control by stationary sources.				
Area Sources						
A 1	Control Bakeries	Adopt SCAQMD Rule 1153: Commercial Bakery Ovens.				
A 2	Low-Emission Asphalt	Adopt SCAQMD Rules 1108: Cutback Asphalt (less than 0.5% VOC evaporating at 260F) and 1108.1: Emulsified Asphalt (less than 3% VOC evaporating at 260F).				
A 3	Low-Emission Natural Gas Furnaces	Adopt SCAQMD Rule 1111: NOx Emissions from Natural Gas Fired, Fan-Type Central Furnaces (no more than 40 nanograms of NOx per joule of useful heat).				
A 4	Low-Emission Natural Gas Water Heaters	Adopt SCAQMD Rule 1121: Control of NOx from Residential Type Natural Gas Fired Water Heaters.				
A 5	Reduced Emissions from Petroleum Storage Tanks	Adopt SCAQMD Rule 1178: Further Reductions of VOC Emissions from Storage Tanks at Petroleum Facilities.				
A 6	Reduced Emissions from Wastewater Systems	Adopt SCAQMD Rule 1176: Sumps and Wastewater Separators.				
A 7	Expand OTC AIMS Rule	Expand OTC AIMS Rule to Upwind Counties.				
A 8	Expand OTC Consumer Products Rule	Expand OTC Consumer Product Rule to Upwind Counties.				
A 9	Expand OTC Mobile Equipment Repair and Refinishing Rule	Expand OTC Mobile Equipment Repair and Refinishing Rule to Upwind Counties.				
A 10	Expand OTC Portable Fuel Containers Rule	Expand OTC Portable Fuel Containers Rule to Upwind Counties.				
A 11	Expand OTC Solvent Cleaning Rule	Expand OTC Solvent Cleaning Rule to Upwind Counties.				
A 12	Expand Seasonal Open Burning Restrictions	Expand Prohibitions on Seasonal Open Burning.				
A 13	Expand Stage I Vapor Recovery	Expand Requirements for Stage I Vapor Recovery.				
A 14	Expand Stage II Vapor Recovery	Expand requirements for Stage II Vapor Recovery.				
A 15	Expand Surface Cleaning/Degreasing/Auto Repair Requirements	Expand Presumptive RACT Requirements.				
A 16	Enhanced Enforcement of Area Source Regs	Enhance enforcement of seasonal open burning restrictions in MD.				
A 17	Enhanced Enforcement of Area Source Regs	Enhance enforcement of surface cleaning rules.				
A 18	Episodic limits on asphalt paving and traffic marking activities	Prohibit road paving and traffic marking on ozone action days.				
A 19	No Fuel Policy on Code Red Days	Voluntary reduction in fueling activities on Code Red Days.				
A 20	Episodic Pesticide Application Restrictions	Ban pesticide application on Code Red Ozone Action Days.				
A 21	Episodic Pesticide Application Restrictions	Voluntary moratorium on pesticide application on Code Red Ozone Action Days.				
A 22	Best Practices: Pesticide Application	Establish best practices for pesticide application.				
A 23	"Cash for Clunkers" Gasoline Containers Replacement Program	Accelerate the Replacement of Older Gasoline Cans with CARB Compliant Containers. Offer incentives for consumers to turn in old gas cans and obtain new ones.				
A 24	Increase Urban Tree Canopy	Implement Programs to Reduce the Urban Heat Island Effect.				
A 25	Green and Cool Roofs Projects	Implement Programs to Reduce the Urban Heat Island Effect.				
A 26	Green Procurement Policy	Establish procurements policies that foster emission reduction.				
A 27	Ozone Action Days	Take a variety of actions on Code Red Days to reduce emissions and improve air quality.				
A 28	Government Actions (ozone action day similar to snow day)	Implement a liberal leave policy for local, state and federal employees on Code Red Ozone Action Days, permitting employees to work from home or take unscheduled leave.				
A 29	Clean Air Partners	Educate public and encourage individuals and businesses to take voluntary action.				

DRAFT

Table 1. Master List of Potential Control Measures for 8-hour Ozone SIP

List #	Measure	Description	Emission Reduction Potential	Feasibility	Cost	Timeframe (2007 or 2009)
A 30	Public Outreach and Education	Implement Strategic Communication Campaigns to Increase Public Awareness.				
A 31	Local Government Education Campaign	Implement Strategic Communication Campaigns to Increase Local Government Awareness.				
A 32	Create Action Alliances	Enlist Community Activists for Outreach Efforts.				
A 33	Mass Marketing Campaign	Marketing effort involving business-to-business advertising campaign in print media and on world wide web.				
Non-road Sources						
N 1	Agricultural equipment retrofits	Require agricultural equipment to be retrofitted with emissions controls.				
N 2	Agricultural Equipment Use Restrictions	Ban use of agricultural equipment on Code Red Ozone Action Days.				
N 3	Agricultural Equipment Use Restrictions	Voluntary moratorium on use of agricultural equipment on Code Red Ozone Action Days.				
N 4	Agricultural equipment use restrictions	Mandatory restrictions on use of agricultural equipment during Code Red Ozone Action Days.				
N 5	Biodiesel for Off-Road Equipment	Require all off-road diesel equipment to burn biodiesel during ozone season.				
N 6	EPA Tier II Emissions Standards for Large SI Engines	Adopt EPA Tier II standards before they become effective in 2007.				
N 7	Industrial equipment replacement	Subsidize replacement of fossil-fuel fired industrial equipment with electric industrial equipment.				
N 8	Industrial equipment retrofits	Require industrial equipment to be retrofitted with emissions controls.				
N 9	Light commercial equipment retrofits	Require light commercial equipment to be retrofitted with emissions controls.				
N 10	Low emissions lawn & garden equipment	Adopt EPA lawn & garden equipment rules before they become effective in 2007.				
N 11	Low NOx Fuel for Lawn & Garden Equipment	Require diesel-fired lawn & garden equipment to use low-NOx fuel during ozone season.				
N 12	Low NOx Fuel for Recreational Marine Equipment	Require diesel-fired recreational marine equipment to use low-NOx fuel during ozone season.				
N 13	Low-emissions agricultural equipment	Require sale of low-emissions agricultural equipment in region.				
N 14	Low-emissions industrial equipment	Require sale of low-emissions industrial equipment in region.				
N 15	Require low-NOx fuel for airport GSE	Require airport GSE to use low-NOx fuel during ozone season.				
N 16	Require low-NOx fuel for industrial equipment	Require industrial equipment to use low-NOx fuel during ozone season.				
N 17	Require low-NOx fuel for light commercial equipment	Require light commercial equipment to use low-NOx fuel during ozone season, if applicable.				
N 18	Require low-NOx fuel for recreational equipment	Require recreational equipment to use low-NOx fuel during ozone season.				
N 19	Retrofit/Repower Locomotives	Provide financial incentives to retrofit or repower locomotives operating in the nonattainment area for cleaner burning diesel or alternative fuels.				
N 20	Locomotive Idling Reduction	Support Installation of Idling Reduction Technologies on Locomotives.				
N 21	Airport Emission Cap	Establish Agreement with Airports Authority to Cap or Reduce Emissions.				
N 22	Locomotive Engine Standards	Establish New Locomotive Engine Standards.				
N 23	Marine Diesel Engine Standards	Establish New Marine Engine Standards.				
N 24	Airport Emissions Cap in Upwind Counties	Voluntary Agreement to Cap Airport Emissions Outside the Nonattainment Area.				
N 25	"Cash for Clunkers" 2-cycle Engines	Implement a 2-cycle Engine Replacement Program.				
N 26	"Cash for Clunkers" Lawn & Garden Equipment	Offer cash for consumers to turn in lawnmowers or lawn tractors and purchase electric or push mowers.				
N 27	"Cash for Clunkers" Outboard Motors	Offer cash for consumers to turn in old outboard motors and purchase new ones.				
N 28	"Cash for Clunkers" Recreational Equipment Program	Offer small cash reward for owners to turn in old, high-emission recreational equipment.				
N 29	Clean Air Maintenance Initiative: Road Maintenance Contracts	Develop alternative programs for state and local governments to reduce on-road and off-road construction and maintenance related emissions. Episodic: no work or idling restrictions. Non-episodic: Control retrofits.				
N 30	Clean Air Construction Initiative: Road Construction Projects	Develop alternative programs for state and local governments to reduce on-road and off-road construction and maintenance related emissions. Episodic: no work or idling restrictions. Non-episodic: Control retrofits.				
N 31	Clean Air Construction Initiative: Off-Road Construction Projects	Develop alternative programs for state and local governments to reduce on-road and off-road construction and maintenance related emissions. Episodic: no work or idling restrictions. Non-episodic: Control retrofits.				
N 32	Clean Air Construction Initiative: Preference for Low-emissions Industrial Equipment	In bids for government contracts, award extra points to bidders using low-emission industrial equipment.				
N 33	Episodic restrictions on lawn & garden equipment	Restrict use of lawn and garden equipment during expected ozone exceedance days.				
N 34	Episodic restrictions on recreational equipment use	Restrict use of recreational equipment during expected ozone exceedance days.				
N 35	Episodic restrictions on use of industrial equipment	Moratorium on use of industrial equipment during Code Red Ozone Action Days.				
N 36	Episodic Lawn & Garden Equipment Use Restrictions	Ban use of lawn and garden equipment on Code Red Ozone Action Days.				
N 37	Episodic Lawn & Garden Equipment Use Restrictions	Voluntary moratorium on operation of residential lawn & garden equipment on Ozone Action Days.				

DRAFT

Table 1. Master List of Potential Control Measures for 8-hour Ozone SIP

List #	Measure	Description	Emission Reduction Potential	Feasibility	Cost	Timeframe (2007 or 2009)
N 38	Episodic Lawn & Garden Equipment Use Restrictions	Ban use of lawn & garden equipment on state & local projects on Ozone Action Days.				
N 39	Episodic Light commercial equipment use restrictions	Restrict use of light commercial equipment during expected ozone exceedance days.				
N 40	Episodic Low-NOx Fuel for Construction Equipment	Require diesel-fired construction equipment operating in region to use low-NOx fuel during ozone season.				
N 41	Episodic Low-NOx Fuel for Construction Equipment	Require diesel-fired construction equipment operating on state or local government contracts to use low-NOx fuel during ozone season.				
N 42	Episodic Low-NOx Fuel for Construction Equipment	Voluntary use of low-NOx fuel by diesel-fired construction equipment during ozone season.				
N 43	Episodic No Mow Policy on Code Red Days	Voluntary reduction in pesticide use on Code Red Days.				
N 44	Recreational equipment retrofits	Require recreational equipment to be retrofitted with particulate filters and/or oxidation catalysts.				
N 45	Episodic Recreational Marine Equipment Use Restrictions	Ban use of recreational marine equipment on Code Red Ozone Action Days.				
N 46	Episodic Recreational Marine Equipment Use Restrictions	Voluntary moratorium on use of all recreational marine equipment on Ozone Action Days.				
N 47	Episodic Recreational Marine Idling Restrictions	Ban idling by recreational marine equipment on Code Red Ozone Action Days.				
N 48	Episodic Recreational Marine Idling Restrictions	Voluntary moratorium on idling by recreational marine equipment on Ozone Action Days.				
N 49	Episodic Recreational Marine Idling Restrictions	Ban idling by recreational marine equipment during ozone season.				
N 50	Idling restrictions for industrial equipment	Limit idling by industrial equipment.				
N 51	Idling restrictions for lawn & garden equipment	Limit idling by commercial lawn & garden equipment.				
N 52	Recreational Marine Idling Restrictions	Ban idling by recreational marine equipment year-round.				
N 53	Airport Congestion Pricing	Charge higher aircraft landing fees during busy times of day to reduce airport delays and congestion.				
N 54	Gas Tax Increase	Implement a fuel tax on off-road gasoline.				
N 55	Diesel Tax Increase	Implement a fuel tax on off-road diesel.				
Mobile Sources						
M 1	Biodiesel	Require regional use of biodiesel fuel for on-road vehicles.				
M 2	CAL LEV II Standards	Adopt CAL LEV II Standards.				
M 3	CARB Diesel Fuel	Implement CARB diesel fuel standards.				
M 4	High Cetane Fuel	Require High Cetane Diesel Fuel for On- and/or Non-road Vehicles.				
M 5	Low-NOx Diesel Fuel	Require regional use of low-NOx fuel for on-road diesel vehicles				
M 6	Expand Reformulated Gas	Require Reformulated Gas in Maintenance Areas.				
M 7	Ban Vehicles from Downtown Streets	Restrict private vehicle use in certain downtown areas during business hours, encouraging pedestrian and bicycle use instead.				
M 8	Heavy-Duty Diesel I/M Program	Implement an Inspection and Maintenance Program for Heavy-duty Diesel Engines.				
M 9	Expand Remote Sensing Program	Expand the Adoption of a Remote Sensing Program to DC and MD.				
M 10	Zero I/M waivers and exemptions	Eliminate all waivers and exemptions in the I/M program.				
M 11	Convenience Commercial Centers in Residential Areas	Change zoning ordinances to allow neighborhood-serving retail establishments in residential areas.				
M 12	Incentives for Mixed Use at Transit Centers	Include incentives for mixed-use development at transit centers to reduce sprawl and VMT.				
M 13	Infill Development	Implement an infill development program throughout the Washington region.				
M 14	Proximity Commute	Encourage employees of the same firm to swap jobs, permitting each to work at a location closer to home.				
M 15	Proximity Commuting (Live Near Your Work)	Provides financial incentives to homebuyers moving to designated neighborhoods near their workplaces.				
M 16	Shorter Distance from Buildings to Bus Stops	For existing buildings, re-route traffic to allow buses to come closer to the building. For new buildings, alter setback requirements to allow closer bus access.				
M 17	Smart Growth and Infill Development Programs	Encourage development/redevelopment of land in designated growth areas, encouraging local governments to place greater emphasis on land development near transit stations.				
M 18	Smart Growth Development	Implement a Smart Growth program throughout the Washington region.				
M 19	Telecommuting Centers and Telework Program	Telecommuting centers, including marketing activity, consultant support, commuter and employer information and assistance.				
M 20	Telecourses at Local Colleges and Universities	Encourage local colleges and universities to offer telecourses. This would reduce vehicle trips.				
M 21	Restrict Construction of New Parking	Restrict construction of new parking at employment centers based on distance from transit and urban core.				
M 22	Expand HOV Network on the Freeway System	Construct additional HOV lanes on regional freeways, for example I-95 and I-695.				
M 23	Regional Traveler Information/Assistance Systems	Regional traveler information/assistance systems to facilitate efficient traffic management during incidents and accidents.				
M 24	Replace Traffic Signals with Lesser Controls	Install roundabouts in place of signalized intersections.				
M 25	Signals to Flashing Yellow 12am-5am	From midnight until 5am, set intersection signals to flashing yellow in predominant direction and flashing red in minor direction for all low volume intersections where safety permits.				
M 26	Traffic Signal Optimization	Regularly optimize traffic signals to reduce idling and low-speed emissions.				
M 27	ATM Machines Installed at Metro Stations	Install ATMs near metro stations for rider convenience.				
M 28	Automatic Vehicle Locator System	System would provide bus location information to WMATA dispatchers. This would decrease wait time and improve on-time arrival/departure.				
M 29	Bicycle Racks in DC	Install bicycle racks at various locations throughout the region.				

DRAFT

Table 1. Master List of Potential Control Measures for 8-hour Ozone SIP

List #	Measure	Description	Emission Reduction Potential	Feasibility	Cost	Timeframe (2007 or 2009)
M 30	Bike Lockers at Metro Stations, Park & Ride Lots, Other Locations	Expand existing bike lockers at Metrorail stations, install bicycle storage spaces in parking lots.				
M 31	Bike Racks on Transit Buses	Provide external bike racks on WMATA and other local transit buses.				
M 32	Bike/Pedestrian Paths	Fund construction of additional bicycle/pedestrian paths in the region.				
M 33	Build Park & Ride Lots at Major Intersections of Commuter Highways	Construct new park & ride commuter lots along HOV facilities.				
M 34	Car Sharing Program	Fund incentives for new car sharing customers (i.e., Flexcar or Zipcar services).				
M 35	Clean Commute/Try Transit Week	Promotes use of alternative transportation, including transit, by daily commuters for one week per year.				
M 36	College 33 Pass System	Expand Baltimore college bus fare program to DC area. Program allows students to receive reduced fares near 19 participating schools in the region.				
M 37	Safe Routes to School Program	Implement a safe routes to school program to reduce VMT.				
M 38	Commuter Choice - State & Local Government Employees	Provide the region's local, state and municipal employees with transit benefits.				
M 39	Commuter Choice Tax Credit	Employers subsidize employees' monthly transit or vanpool costs and receive a tax credit for incurred expenses.				
M 40	Commuter Operations Center	Provides commuter assistance services, including carpool and vanpool ride-matching.				
M 41	Discount Multi-Trip Bus Fares	Introduce discount programs reducing cost of multiple bus rides through purchase of pass books (e.g. 10-trip tickets).				
M 42	Additional Transit Stores	Establish additional stationary transit stores in the region.				
M 43	Expand Metro Check to all County Employees					
M 44	Expand Peak Period Metrorail Service	Extend peak-period service on Metrorail so trains run at 6 minute frequency from 6-11 am and 3-8 pm.				
M 45	Expand VRE Train Service	Expand VRE train service to include additional departures.				
M 46	Expand WMATA Fleet with Hybrid-Electric Buses	Purchase hybrid electric buses instead of clean diesel as part of WMATA fleet expansion.				
M 47	Express Buses From Outlying Areas	Implement direct bus service from outlying Park & Ride lots and far suburbs to major work centers.				
M 48	Express Reverse Commuter Buses	Implement reverse commute express buses from the District to major outlying work centers.				
M 49	Extend Ramp Metering	Install signals to control flow of vehicles at selected freeway ramp entrances to maintain level of service.				
M 50	Flat Fare For All Transit Trips	Single price all public transit services with a flat \$1.10 fare and free transfers all day, 7 days per week.				
M 51	Fleet ILEV for light-duty gasoline vehicles	Require fleets operating in nonattainment area to be comprised of a percentage of ILEV vehicles.				
M 52	Free Bus Service Off-Peak	Institute free off-peak bus service from 10-2 on weekdays and all day on weekends.				
M 53	Free bus-to-rail / rail-to-bus transfers	Institute free bus-to-rail transfer similar to free rail-to-bus transfer currently in place.				
M 54	Free Parking for Carpools	All employers must provide free parking spaces for all carpools or vanpools.				
M 55	Free Rail Use 10-3	Free Metrorail trips for all riders from 10AM-3PM on weekdays.				
M 56	Free Reserved Carpool/Vanpool Spaces	Provide free reserved parking spaces for all carpools or vanpools.				
M 57	Free Transit Passes to Students	Free transit passes for high school and college students, subsidized by schools or through student registration fee.				
M 58	Half Price Fares on Feeder Bus Service	All metro bus and local bus services to Metrorail and commuter rail stations reduce fares by half.				
M 59	Improvements to Bicycle and Pedestrian Access	Provide incentives to developments that speed improvements to bicycle/pedestrian access. This includes improvements to sidewalks, curb ramps, crosswalks, lighting, etc.				
M 60	Increase Commuter Rail Frequency	Increase frequency of MARC service to every 15 minutes on Penn and Camden lines and every 10 min on the Brunswick line. Increase VRE frequency to every 15 minutes.				
M 61	Metrorail Feeder Bus Service & Fare Buydown	Improve Metrorail feeder bus service at underutilized park & ride lots, implement fare buydown program.				
M 62	Mobile Commuter Stores	Fund mobile commuter stores in suburban commercial areas.				
M 63	New MARC Coaches	Purchase additional coaches for MARC to accommodate increased ridership.				
M 64	New Surface Parking at Transit Centers	Add new parking spaces at transit centers (bus, Metrorail, MARC) parking lots.				
M 65	Enhance Pedestrian Facilities	Pedestrian Improvement in Richmond Highway Corridor.				
M 66	Provide Additional Transit Service	Increase funding for transit services to expand core service.				
M 67	Provide Additional Transit Service Access	Increase funding for enhancing access to transit services.				
M 68	Real-Time Bus Schedule Information	Expand trials of real-time bus schedule information to local transit providers.				
M 69	Reduce Parking Fees at Facilities Outside the Beltway Adjacent to Metro	Reduce parking fees at Metro parking facilities or county/city managed facilities outside of the Beltway that are located near Metro stations.				
M 70	Regional bus service expansion	Expansion of Metrobus and other regional bus services.				
M 71	Support rail to Dulles Airport	Provide funding to expand rail services to Dulles Airport.				
M 72	Transit Prioritization -- Queue Jumps	Provide queue jumps for buses at over-capacity signalized intersections throughout the region. Queue jumps allow buses to use a shoulder or other designated lane to bypass intersection queues and move forward towards the stop line.				
M 73	Universal Transportation Access (MD + WMATA)	SmarTrip card will allow users to pay fares on all rail and bus systems in the region (including parking in Metrorail lots) using one electronic card.				

DRAFT

Table 1. Master List of Potential Control Measures for 8-hour Ozone SIP

List #	Measure	Description	Emission Reduction Potential	Feasibility	Cost	Timeframe (2007 or 2009)
M 74	WMATA Bus Information Displays with Maps	Install additional information boxes with maps and schedule information. Would include schedules in languages other than English in neighborhoods where most residents speak another language.				
M 75	Rush Hour Shift	Shift Metrorail AM and PM rush hours to start 30 min earlier and end 30 min earlier.				
M 76	Expand I/M Requirements to Upwind Counties	Expand Inspection and Maintenance Requirements.				
M 77	Expand Reformulated Gas to Upwind Counties	Expand Requirements for Reformulated Gas.				
M 78	"Cash for Clunkers" On-Road Vehicles	Fund voluntary program paying car owners to turn in old vehicles for scrappage. Target pre-1980 vehicles with minimal/no emissions control.				
M 79	"Cash for Clunkers" Early Bus Engine Replacement	Replaces high-polluting diesel engines in WMATA buses with new diesel engines.				
M 80	"Cash for Clunkers" Taxicab Replacement - Conventional Vehicles	Replace taxicabs with new "conventional" LDGVs.				
M 81	Alternative Fuel Vehicle Purchase Program: State and Local Fleets	Accelerate Adoption of Alternative Fueled Vehicles, including Hybrids. Focus on state and local fleets.				
M 82	Alternative Fuel Vehicle Purchase Program: Private Owners Fleet	Accelerate Adoption of Alternative Fueled Vehicles, including Hybrids. Consider Use of Tax Incentives.				
M 83	Alternative Fuel Vehicle Purchase Program: CNG Buses Instead of New Diesel	Purchase additional CNG buses for local transit authorities instead of normally scheduled replacement diesel bus purchases. This would also require expanded CNG fueling and maintenance facilities.				
M 84	Alternative Fuel Vehicle Purchase Program: CNG Fueling Stations for DC Metro Region	Build new modular CNG fueling stations.				
M 85	Alternative Fuel Vehicle Purchase Program: CNG Refuse Haulers	Purchase new CNG powered trash trucks instead of conventional diesel vehicles.				
M 86	Alternative Fuel Vehicle Purchase Program: CNG Rental Cars	Purchase CNG rental cars for use in the region.				
M 87	Alternative Fuel Vehicle Purchase Program: CNG Taxicabs	Replace regional taxicabs 7 years or older with CNG or other alternative fuel vehicles.				
M 88	Diesel Retrofit Program: School Buses	Retrofit diesel school buses.				
M 89	Diesel Retrofit Program: State Vehicles	Retrofit diesel state vehicles.				
M 90	Diesel Retrofit Program: Local Vehicles	Retrofit diesel local vehicles.				
M 91	Diesel Retrofit Program: Commercial Vehicles	Retrofit diesel commercial vehicles.				
M 92	Diesel Retrofit Program: International Green Diesel Retrofit	Fit 500 transit buses running on ultra low sulfur diesel with a quad-catalytic filter.				
M 93	4 Day Work Week/Flexible Work Schedules	Encourage employers to adopt a shorter work week, with employees working 4 10-hour days.				
M 94	Access to Jobs Program	Identifies gaps in transit service between places of residence and places of work for low wage workers.				
M 95	Employer Metro Shuttle Bus Services	Provide incentives for businesses to provide employee shuttle service to the nearest rail or transit stop.				
M 96	Employer Parking Cash-Out	Implement voluntary program encouraging employers to provide the value of subsidized parking to employees who use alternative commute strategies.				
M 97	Employer Parking Cash-Out	Implement program requiring employers to provide the value of subsidized parking to employees who use alternative commute strategies.				
M 98	Employers Provide Free Bicycles for Midday Use	Require employers to provide one bicycle per 50 employees for mid-day business or personal use.				
M 99	Mandatory Employee Commute Reduction	Mandatory employer trip reduction to reduce trips by regional average of 20%.				
M 100	Mandatory Employee Trip Reduction Plan	Require all regional employers to reduce employee vehicle trips.				
M 101	Voluntary Employer Parking Cash-Out Subsidy	Employers who provide free parking would be encouraged to provide the cash equivalent of the parking subsidy to employees who do not drive to work.				
M 102	Control Extended Idling of Buses and Trucks	Step-up enforcement of existing regulations to prevent extended vehicle idling.				
M 103	Enforce On-Road Idling Restrictions	Increase enforcement of regional idling restrictions for on-road vehicles.				
M 104	Enhanced Enforcement of Area Source Regs	Enhance enforcement of open burning restriction in Virginia.				
M 105	Speed Limit Adherence	Increase speed limit enforcement on portions of the freeway system where speeding is a problem so that more vehicles are traveling at or below the posted limit.				
M 106	Low-NOx On-Road Diesel Fuel in Ozone Season	Require use of low-NOx additive in on-road diesel fuel during ozone season.				
M 107	Low-NOx On-Road Diesel Fuel in Ozone Season	Require use of low-NOx additive by state or local diesel vehicles during ozone season.				
M 108	Control Parking at Schools	Restrict high school students from driving to and parking at high schools when bus service is available.				
M 109	Permit Right Turn on Red	Reduce vehicle idling time by permitting right turn on red, where safety allows.				
M 110	Trip reduction ordinances	Prohibit drivers from traveling during certain periods, based on vehicle tags or other easily identifiable criteria. Can be a permanent or episodic control.				
M 111	Remove Trash Trucks From Area Streets	Reduce use of trash trucks through transport of trash by barge.				
M 112	Bose Anti-Air Pollutant and Energy Conservation System	Fund trial of Bose system in local vehicle fleets. The Bose system is a mechanical system that uses high-speed centrifugal separation to remove light combustible gases from the exhaust stream. The system can be used with all types of fuel.				
M 113	W15-590 Diesel Fuel Additive	Fund trial of the fuel additive W15-590 to reduce NOX emissions. The additive can be mixed with the fuel before or after delivery from the distribution center.				

DRAFT

Table 1. Master List of Potential Control Measures for 8-hour Ozone SIP

List #	Measure	Description	Emission Reduction Potential	Feasibility	Cost	Timeframe (2007 or 2009)
M 114	Bike to Work Day	Conduct a one-day bike to work event. Provide outreach activities, education on the bike-to-work option, and assistance in trying bike-to-work.				
M 115	Guaranteed Ride Home	Provides free rides home in event of unexpected emergency or unscheduled overtime to commuters using public transport.				
M 116	Integrated Rideshare	Provides transit, park & ride, and telecenter information to all commuters on a matchlist.				
M 117	Interactive Rideshare Kiosks	Transportation Information Kiosks in Maryland, Virginia and the District of Columbia.				
M 118	Student & staff based college & university rideshare programs	Create rideshare program focused on students and staff at regional universities.				
M 119	Vanpool Insurance	Establish a special risk pool to underwrite the cost of vanpool insurance.				
M 120	Vanpool Programs	Create programs and incentives designed to increase the number of vanpools in the region.				
M 121	Truck Stop Electrification (TSE)	Implement Projects to Electrify Truck Stops.				
M 122	Idling Reduction (APU)	Increase Market Penetration of APUs to Reduce Truck Idling.				
M 123	Fleet Efficiency	Encourage Adoption of Technologies that Increase Truck Fleet Efficiency.				
M 124	Intermodal Transport	Increase Use of Intermodal Options for Transporting Goods.				
M 125	Annual Gasoline Vehicle Pollution Fee	Levy an annual fee on petroleum-powered vehicles based on mileage driven and emission rates.				
M 126	Congestion Pricing on Low Occupancy Vehicles	Impose a fee on vehicles containing two or fewer persons that use designated roadways during the peak AM period.				
M 127	Commuter Parking Tax	Implement daily tax on employees using commuter parking spaces.				
M 128	Commuter Parking Tax	Implement daily tax on employers providing free or discounted commuter parking spaces.				
M 129	Commuter Parking Tax	Implement daily tax on employers who do not provide transit benefits to employees.				
M 130	Gas Tax Increase	Implement a fuel tax on on-road gasoline.				
M 131	Diesel Tax Increase	Implement a fuel tax on on-road diesel.				
M 132	Graduated Car Tax	Charge higher car tax on each additional vehicle registered by a household.				
M 133	Graduated Car Tax	Charge graduated car taxes based on a vehicle's EPA miles per gallon rating.				
M 134	Graduated Car Tax	Implement region-wide car tax for petroleum-fueled vehicles; alternative-fueled vehicles will be exempt.				
M 135	Graduated registration fees for recreational boats	Levee additional registration fee for registration of boats with old, high-emission engines.				
M 136	Graduated Vehicle Registration Fee Based on Number of Vehicles	Assess graduated vehicle registration fee/car tax on every privately owned vehicle in the region. Households with multiple vehicles pay higher tax on each additional vehicle				
M 137	Market Based Parking Charge at Federal Facilities	Negotiate agreement with federal government to charge market rate for daily parking for all employees.				
M 138	Parking Impact Fee	Levy annual impact fee on every parking space in nonattainment area.				
M 139	Parking Impact Fee	Levy an annual fee on every commuter parking space in the Washington nonattainment area.				
M 140	Pay-as-you-drive auto insurance (\$/gal)	Offer auto insurance rates linked to number of gallons of fuel consumed by vehicle.				
M 141	Rebate for Purchase of Hybrid or Fuel Efficient Vehicles	Issue rebate for purchase and registration of hybrid vehicle in Washington region.				
M 142	Tax Parking Spaces Above Code Minimum	Discourage developers from providing parking in excess of code minimum by imposing a graduated tax on excess spaces.				
M 143	Value Pricing (HOT lanes)	Implement value pricing strategies on busy freeways during rush hour.				
M 144	VMT-Based Car Tax	Charge VMT fee for all vehicles registered or garaged in the region.				
M 145	Ozone Action Days	Take a variety of actions on Code Red Days to reduce emissions and improve air quality.				
M 146	Government Actions (ozone action day similar to snow day)	Implement a liberal leave policy for local, state and federal employees on Code Red Ozone Action Days, permitting employees to work from home or take unscheduled leave.				
M 147	Clean Air Partners	Educate public and encourage individuals and businesses to take voluntary action.				
M 148	Public Outreach and Education	Implement Strategic Communication Campaigns to Increase Public Awareness.				
M 149	Local Government Education Campaign	Implement Strategic Communication Campaigns to Increase Local Government Awareness.				
M 150	Create Action Alliances	Enlist Community Activists for Outreach Efforts.				
M 151	Mass Marketing Campaign	Marketing effort involving business-to-business advertising campaign in print media and on world wide web.				