

**PLAN TO IMPROVE AIR QUALITY IN THE
WASHINGTON, DC-MD-VA REGION**

February 19, 2004



State Implementation Plan
"Severe Area SIP"

**APPENDICES
Volume II**

Appendices Volume II

Appendix E Point Source Inventories and Projections

Appendix F Use of NO_x Substitution in Rate of Progress
RACT Fix-Up Documentation

Appendix G Emission Reductions from Transportation Control Measures

Appendix H Severe Area Plan Commitments
Date for Achieving 1999-2002 Rate-of-Progress

Appendix I Emission Reductions from Phase II RFG Controls

Appendix J EPA Voluntary Measures Guidance
Allowable Tonnage from Voluntary Measures
Voluntary Measure Commitments
Additional Documentation for Calculations

Appendix K Information Related to Public Hearings and Hearing Notices
Comments Received and Response to Comments

Appendix L Analysis of Potential Stationary Source RACM Measures

Appendix M Analysis of Potential Area Source RACM Measures

Appendix N Analysis of Potential Non-Road Source RACM Measures

Appendix O Analysis of Potential Mobile Source RACM Measures

Appendix E

Point Source Inventories and Projections

**SOURCES ADDED TO POINT SOURCE INVENTORY TO MEET SEVERE
AREA 25 TONS PER YEAR THRESHOLD**

VIRGINIA		
COUNTY ID	PLANT ID	PLANT NAME
013	0010	PETAGON RESERVATION
013	0018	ARLINGTON POLLUTION CONTROL
059	0281	NORMAN COLE POLLUTION CONTROL
059	0575	MICHIGAN COGENERATION
059	0733	AMERICA ONLINE
107	0125	COLUMBIA GAS TRANSMISSION
107	0134	AMERICA ONLINE
153	0090	CITY OF MANASAS/VMEA
510	0001	VIRGINIA PAVING COMPANY

DISTRICT OF COLUMBIA		
-	-	WASHINGTON HOSPITAL CENTER
-	-	WALTER REED ARMY MEDICAL CENTER

MARYLAND		
COUNTY	PREMISE ID	COMPANY NAME
Frederick	0037	KLINE, RICHARD F., INC.
Montgomery	1124	NATIONAL NAVAL MEDICAL CENTER
Prince George's	0667	AGRICULTURAL RESEARCH CENTER

District of Columbia - Point Source Emission Projections with EGAS v3.0 (Base year 1990)

NO CONTROLS

SOURCE NAME	Base Year 1990		1996		1999		2002		2005	
	Pounds/Day		Pounds per Day		Pounds per Day		Pounds per Day		Pounds per Day	
	VOC	NOx	VOC	NOx	VOC	NOx	VOC	NOx	VOC	NOx
PEPCO Benning	186.2	8819.0	186.2	8819.0	186.2	8819.0	186.2	8819.0	186.2	8819.0
Capitol Power Plant	7.2	1224.7	7.4	1267.3	7.6	1308.4	7.8	1338.7	8.0	1361.2
GSA West & Central Heating	11.6	1262.9	12.3	1359.9	12.4	1371.4	12.1	1337.8	11.7	1289.3
Georgetown Univ Power Plant	14.7	1203.1	15.4	1259.3	15.6	1271.7	15.3	1250.1	14.9	1216.1
PEPCO Buzzard	77.4	1455.2	77.4	1455.2	77.4	1455.2	77.4	1455.2	77.4	1455.2
St. Eli. Hospital	2.2	127.3	2.3	137.3	2.3	135.7	2.2	127.4	2.0	117.3
US Soldiers Home	1.9	93.1	2.1	100.3	2.0	99.2	1.9	93.1	1.8	85.7
Naval Research Lab	3.4	175.5	3.5	180.3	3.6	184.5	3.6	186.4	3.6	186.8
Howard University	4.2	284.2	4.2	284.2	4.2	284.2	4.2	284.2	4.2	284.2
Solid Waste Transfer Center*	203.8	597.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Bureau of Engraving & Printing	951.6	0.0	951.6	0.0	951.6	0.0	951.6	0.0	951.6	0.0
Government Printing Office	466.2	0.0	466.2	0.0	466.2	0.0	466.2	0.0	466.2	0.0
Washington Hospital Center**	3.5	180.3	3.5	183.0	3.7	188.9	3.8	194.2	3.8	198.4
Walter Reed Army Med Ctr**	2.9	157.1	3.0	159.5	3.1	164.7	3.2	169.3	3.2	172.9
Totals (Pounds per Day)	1937	15600	1735	15205	1736	15283	1735	15255	1735	15186
Totals (Tons per Day)	0.97	7.80	0.87	7.60	0.87	7.64	0.87	7.63	0.87	7.59
	VOC	NOx	VOC	NOx	VOC	NOx	VOC	NOx	VOC	NOx
	BaseYear 1990		Year 1996		Year 1999		Year 2002		Year 2005	

* Source closed during 1992-93

** New sources meeting the severe area 25tpy threshold

District of Columbia - Point Source Emissions EGASv3.0 Projections
WITH CONTROLS (Non-CTG VOC RACT, NOx RACT, NOx Budget Rule and NOx SIP Call)

SOURCE NAME	Base Year 1990		1996		1999		2002		2005	
	Pounds/Day		Pounds per Day		Pounds per Day		Pounds per Day		Pounds per Day	
	VOC	NOx	VOC	NOx	VOC	NOx	VOC	NOx	VOC	NOx
PEPCO Benning ^{1,2,3}	186.2	8819.0	186.2	5825.4	186.2	5825.4	186.2	4579.1	186.2	2575.2
Capitol Power Plant ¹	7.2	1224.7	7.4	831.3	7.6	858.3	7.8	878.1	8.0	892.9
GSA West & Central Heating ^{1,2,3}	11.6	1282.9	12.3	1033.1	12.4	1044.6	12.1	652.3	11.7	326.8
Georgetown Univ Power Plant ¹	14.7	1203.1	15.4	1037.1	15.6	1049.4	15.3	1027.9	14.9	993.9
PEPCO Buzzard ²	77.4	1455.2	77.4	1455.2	77.4	1455.2	77.4	1034.0	77.4	1034.0
St. Eli. Hospital	2.2	127.3	2.3	137.3	2.3	135.7	2.2	127.4	2.0	117.3
US Soldiers Home ¹	1.9	93.1	2.1	80.5	2.0	79.5	1.9	74.7	1.8	68.7
Naval Research Lab	3.4	175.5	3.5	180.3	3.6	184.5	3.6	186.4	3.6	186.8
Howard University	4.2	284.2	4.2	284.2	4.2	284.2	4.2	284.2	4.2	284.2
Solid Waste Transfer Center*	203.8	597.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Bureau of Engraving & Printing ⁴	951.6	0.0	951.6	0.0	545.2	0.0	522.7	0.0	496.7	0.0
Government Printing Office ⁴	466.2	0.0	466.2	0.0	267.1	0.0	256.1	0.0	248.4	0.0
Washington Hospital Center**	3.5	180.3	3.5	183.0	3.7	188.9	3.8	194.2	3.8	198.4
Walter Reed Army Med Ctr**	2.9	157.1	3.0	159.5	3.1	164.7	3.2	169.3	3.2	172.9
Totals (Pounds per Day)	1937	15600	1735	11207	1130	11270	1096	9208	1062	6851
Totals (Tons per Day)	0.97	7.80	0.87	5.60	0.57	5.64	0.55	4.60	0.53	3.43
	VOC	NOx	VOC	NOx	VOC	NOx	VOC	NOx	VOC	NOx
	BaseYear 1990		Year 1996		Year 1999		Year 2002		Year 2005	

* Source closed during 1992-93
 ** New sources meeting the severe area 25tpy threshold

Regulatory Controls	Sources
¹ NOx RACT Post-1995 (50-100 MMBTU/hr facilities - 0.30lb/MMBTU; Over 100MMBTU/hr facilities - coal: 0.43lb; #2 oils: 0.25 lb; Natural Gas: 0.20lb/MMBTU)	PEPCO-Benning, Capitol Power Plant, GSA, Georgetown Univ. power plant, and US Soldiers home
² NOx Budget Rule, Post-2000	PEPCO-Benning (350.3 tons/season), GSA (49.9 tons/season), and PEPCO-Buzzard (79.1 tons/season)
³ NOx SIP Call, Post-2003	PEPCO-Benning (197 tons/season), and GSA (25 tons/season)
⁴ Non-CTG VOC RACT	Bureau of Engraving & Printing, and Government Printing Office

POINT SOURCE INVENTORIES - PROJECTED EMISSIONS

District of Columbia

Tons per Day

Point Source Inventories	1996		1999		2002		2005	
	VOC	NOx	VOC	NOx	VOC	NOx	VOC	NOx
EMISSIONS WITHOUT CONTROLS	0.87	7.60	0.87	7.64	0.87	7.63	0.87	7.59
EMISSIONS WITH CONTROLS (NOx RACT, NOx Budget Rule & NOx SIP Call, and VOC RACT)	0.87	5.60	0.57	5.64	0.55	4.60	0.53	3.43
Emission Reductions (tpd)	0.00	2.00	0.30	2.01	0.32	3.02	0.34	4.17

District of Columbia, Point Sources - NOx Reductions, tons per day

Control Regulation	1996	1999	2002	2005
NOx RACT (Post-1995)	2.00	2.01	2.01	2.01
NOx Budget Rule (Post-1999)	-	-	1.01	1.01
NOx SIP Call (Post-2003)	-	-	-	1.14
Total NOx Reductions, tpd	2.00	2.01	3.02	4.17

District of Columbia, Point Sources - VOC Reductions, tons per day

Control Regulation	1996	1999	2002	2005
Non-CTG VOC RACT	0.00	0.30	0.02	0.02
Total VOC Reductions, tpd		0.30	0.32	0.34

Maryland Uncontrolled Point Source Inventory

County	Premise ID	Company Name	SIC	VOC (tons per ozone day)				
				1990	1999	2002	2005	2008
Charles	0014	POTOMAC ELECTRIC MORGANTOWN	4911	0.3626	0.3626	0.3626	0.3626	0.3626
Charles	0040	NAVAL SURFACE WARFARE CNTR-INDIAN HD	9711	1.0617	1.1823	1.2222	1.2491	1.2801
Charles	0072	AUTOMATED GRAPHIC SYSTEMS	2731	0.0465	0.0574	0.0634	0.0691	0.0711
Frederick	0003	LEHIGH PORTLAND CEMENT	3295	0.0020	0.0022	0.0023	0.0024	0.0026
Frederick	0005	EASTALCO ALUMINUM	3334	0.0025	0.0030	0.0032	0.0034	0.0037
Frederick	0010	MOORE COMMUNICATIONS SERVICES	2761	0.0870	0.1074	0.1186	0.1293	0.1348
Frederick	0013	ESSROC MATERIALS	3241	0.0035	0.0039	0.0041	0.0042	0.0045
Frederick	0029	GENSTAR STONE PRODUCTS - FRED. PLT 1	3295	0.0528	0.0597	0.0613	0.0614	0.0534
Frederick	0037	KLING, RICHARD F., INC.	2951	0.1188	0.1344	0.1380	0.1382	0.0600
Frederick	0131	FORT DETRICK	9711	0.0365	0.0366	0.0365	0.0363	0.0294
Frederick	0254	CANAM STEEL	3441	0.7640	1.0131	1.1566	1.2925	1.3874
Frederick	0317	METALFAB - GROVE ROAD	3479	0.0405	0.0462	0.0481	0.0493	0.0515
Frederick	0320	FREDERICK MOTOR COMPANY	5511	0.0380	0.0433	0.0451	0.0463	0.0483
Montgomery	0019	POTOMAC ELECTRIC DICKERSON	4911	0.1379	0.1515	0.1564	0.1600	0.1611
Montgomery	0224	GIANT FOOD - SILVER SPRING	2051	0.2040	0.2125	0.2197	0.2251	0.2346
Montgomery	0324	NATIONAL INSTITUTE OF HEALTH	9431	0.0175	0.0178	0.0175	0.0172	0.0168
Montgomery	1078	GORDON'S, HERB AUTO WORLD	5511	0.0370	0.0422	0.0439	0.0451	0.0470
Montgomery	1124	NATIONAL NAVAL MEDICAL CENTER	9711	0.0164	0.0167	0.0165	0.0162	0.0158
Montgomery	1396	EU SERVICES	2752	0.1305	0.1612	0.1779	0.1939	0.2022
Montgomery	1565	GUDE/SOUTHLAWN LANDFILL	4953	0.0795	0.0795	0.0795	0.0795	0.0795
Montgomery	1673	PRESSTAR PRINTING CORPORATION	2752	0.0545	0.0673	0.0743	0.0810	0.0844
Montgomery	1680	SMITH LITHO	2752	0.0750	0.0926	0.1022	0.1115	0.1162
Montgomery	1761	REPRODUCTIONS - RICKENBACKER DRIVE	2752	0.0495	0.0611	0.0675	0.0736	0.0767
Prince George's	0010	UNIVERSITY OF MARYLAND	8221	0.0127	0.0134	0.0133	0.0132	0.0126
Prince George's	0014	POTOMAC ELECTRIC - CHALK POINT	4911	0.4511	0.4698	0.4765	0.4816	0.4829
Prince George's	0069	SMITH, A.H. - BRANDYWINE #2	2951	0.1188	0.1344	0.1380	0.1382	0.1441
Prince George's	0096	DURON, INCORPORATED	2911	0.2220	0.2490	0.2580	0.2641	0.2741
Prince George's	0429	STONE INDUSTRIAL	2655	0.1160	0.1323	0.1377	0.1413	0.1473
Prince George's	0476	EDITORS PRESS	2752	0.1188	0.1467	0.1620	0.1766	0.1841
Prince George's	0543	SAFEWAY BREAD PLANT	2051	0.2640	0.2750	0.2844	0.2913	0.3037
Prince George's	0578	CRAFTSMAN PRESS	2751	0.0585	0.0722	0.0797	0.0869	0.0906
Prince George's	0655	ANDREWS AIR FORCE BASE	9711	0.2459	0.2790	0.2958	0.3105	0.3294
Prince George's	0667	AGRICULTURAL RESEARCH CENTER	8733	0.0015	0.0015	0.0015	0.0015	0.0015
Prince George's	0951	HOLLADAY TYLER PRINTING	2752	0.2445	0.3019	0.3333	0.3633	0.3789
Prince George's	1091	CAIRNS, BILL PONTIAC	5511	0.0535	0.0610	0.0635	0.0652	0.0680
Prince George's	1133	PRINTERS II	2759	0.1115	0.1377	0.1520	0.1657	0.1728
Prince George's	1322	KELLY PRESS	2752	0.0805	0.0994	0.1097	0.1195	0.1246
Prince George's	1511	PEAKE PRINTERS	2752	0.1770	0.2186	0.2413	0.2630	0.2743
Prince George's	1666	CORPORATE PRESS	2752	0.0420	0.0519	0.0573	0.0624	0.0651
TOTAL				5.7365	6.5984	7.0211	7.3914	7.5777

Maryland Uncontrolled Point Source Inventory

County	Premise ID	Company Name	NOx (tons per ozone day)				
			1990	1999	2002	2005	2008
Charles	0014	POTOMAC ELECTRIC MORGANTOWN	131.5024	131.5024	131.5024	131.5024	131.5024
Charles	0040	NAVAL SURFACE WARFARE CNTR-INDIAN HD	1.3560	1.1838	1.1314	1.0814	1.0492
Charles	0072	AUTOMATED GRAPHIC SYSTEMS	0.0000	0.0000	0.0000	0.0000	0.0000
Frederick	0003	LEHIGH PORTLAND CEMENT	0.9600	1.0662	1.1166	1.1531	1.2376
Frederick	0005	EASTALCO ALUMINUM	0.1510	0.1781	0.1930	0.2049	0.2197
Frederick	0010	MOORE COMMUNICATIONS SERVICES	0.0000	0.0000	0.0000	0.0000	0.0000
Frederick	0013	ESSROC MATERIALS	11.7313	13.0283	13.6441	14.0899	15.1233
Frederick	0029	GENSTAR STONE PRODUCTS - FRED. PLT 1	0.0011	0.0006	0.0006	0.0006	0.0006
Frederick	0037	KLING, RICHARD F., INC.	0.2170	0.2455	0.2520	0.2524	0.2632
Frederick	0131	FORT DETRICK	0.8966	0.9107	0.9086	0.9052	0.8925
Frederick	0254	CANAM STEEL	0.0000	0.0000	0.0000	0.0000	0.0000
Frederick	0317	METALFAB - GROVE ROAD	0.0025	0.0023	0.0024	0.0024	0.0025
Frederick	0320	FREDERICK MOTOR COMPANY	0.0010	0.0000	0.0000	0.0000	0.0000
Montgomery	0019	POTOMAC ELECTRIC DICKERSON	33.9882	37.2959	38.4922	39.3837	39.6283
Montgomery	0224	GIANT FOOD - SILVER SPRING	0.0180	0.0189	0.0194	0.0198	0.0197
Montgomery	0324	NATIONAL INSTITUTE OF HEALTH	0.7515	0.8003	0.7521	0.6933	0.6159
Montgomery	1078	GORDON'S, HERB AUTO WORLD	0.0000	0.0000	0.0000	0.0000	0.0000
Montgomery	1124	NATIONAL NAVAL MEDICAL CENTER	0.1707	0.1797	0.1802	0.1792	0.1731
Montgomery	1396	EU SERVICES	0.0000	0.0000	0.0000	0.0000	0.0000
Montgomery	1565	GUDE/SOUTHLAWN LANDFILL	0.1855	0.1855	0.1855	0.1855	0.1855
Montgomery	1673	PRESSTAR PRINTING CORPORATION	0.0015	0.0019	0.0020	0.0022	0.0023
Montgomery	1680	SMITH LITHO	0.0015	0.0019	0.0020	0.0022	0.0023
Montgomery	1761	REPRODUCTIONS - RICKENBACKER DRIVE	0.0000	0.0000	0.0000	0.0000	0.0000
Prince George's	0010	UNIVERSITY OF MARYLAND	0.6554	0.6911	0.6878	0.6783	0.6496
Prince George's	0014	POTOMAC ELECTRIC - CHALK POINT	109.3354	117.7000	120.7255	122.9798	123.5984
Prince George's	0069	SMITH, A.H. - BRANDYWINE #2	0.1236	0.1390	0.1424	0.1425	0.1483
Prince George's	0096	DURON, INCORPORATED	0.0000	0.0000	0.0000	0.0000	0.0000
Prince George's	0429	STONE INDUSTRIAL	0.0015	0.0017	0.0018	0.0018	0.0019
Prince George's	0476	EDITORS PRESS	0.0092	0.0114	0.0126	0.0137	0.0143
Prince George's	0543	SAFEWAY BREAD PLANT	0.0100	0.0104	0.0108	0.0110	0.0114
Prince George's	0578	CRAFTSMAN PRESS	0.0050	0.0062	0.0068	0.0074	0.0077
Prince George's	0655	ANDREWS AIR FORCE BASE	0.2756	0.2936	0.2760	0.2545	0.2262
Prince George's	0667	AGRICULTURAL RESEARCH CENTER	0.0539	0.0573	0.0539	0.0498	0.0444
Prince George's	0951	HOLLADAY TYLER PRINTING	0.0120	0.0148	0.0164	0.0178	0.0186
Prince George's	1091	CAIRNS, BILL PONTIAC	0.0000	0.0000	0.0000	0.0000	0.0000
Prince George's	1133	PRINTERS II	0.0045	0.0056	0.0061	0.0067	0.0070
Prince George's	1322	KELLY PRESS	0.0000	0.0000	0.0000	0.0000	0.0000
Prince George's	1511	PEAKE PRINTERS	0.0000	0.0000	0.0000	0.0000	0.0000
Prince George's	1666	CORPORATE PRESS	0.0000	0.0000	0.0000	0.0000	0.0000
TOTAL			292.4220	305.5330	310.3247	313.8217	315.6460

Reductions from Maryland Point Sources

By Control Measure	2005 Reductions (tpd)		Control Measure	2002 Reductions (tpd)	
	VOC	NOx		VOC	NOx
Aerospace Coatings	0.5962	xx	Aerospace Coatings	0.5779	xx
Autobody Refinishing - DC	0.0029	xx	Autobody Refinishing - DC	0.0016	xx
Bakery RACT	0.1433	xx	Bakery RACT	0.1399	xx
Cold and Vapor Degreasing - DC	0.0044	xx	Cold and Vapor Degreasing - DC	0.0043	xx
Waste Incineration	0.0036	xx	Waste Incineration	0.0036	xx
Miscellaneous Metal - CanAm	0.1680	xx	Miscellaneous Metal - CanAm	0.1504	xx
Miscellaneous Metal	0.0217	xx	Miscellaneous Metal	0.0212	xx
General Surface Coating	0.0707	xx	General Surface Coating	0.0688	xx
Stage II Refueling	0.2660	xx	Stage II Refueling	0.2526	xx
Graphic Arts - DC	0.87	xx	Graphic Arts - DC	0.7971	xx
NOx RACT Non Utility		2.0400	NOx RACT Non Utility		2.12
NOx Phase II		227.88	NOx Phase II		172.62
	2.15	229.92		2.02	174.74

By Facility	2005 Reductions (tpd)		By Facility	2002 Reductions (tpd)	
	VOC	NOx		VOC	NOx
Non-CTG VOC RACT to 50 tpy			Non-CTG VOC RACT to 50 tpy		
Commercial Bakeries - Giant Food	0.1433	xx	Commercial Bakeries - Giant Food	0.1399	xx
CanAm Steel	0.1680	xx	CanAm Steel	0.1504	xx
Non-CTG VOC RACT to 25 tpy			Non-CTG VOC RACT to 25 tpy		
Andrews AFB	0.2836	xx	Andrews AFB	0.2655	xx
Stone Industrial	0.0707	xx	Stone Industrial	0.0688	xx
State Point Soure Regs to 25 tpy			State Point Soure Regs to 25 tpy		
Naval Surface Warfare Center	0.5897	xx	Naval Surface Warfare Center	0.5746	xx
Automated Graphics	0.0484	xx	Automated Graphics	0.0444	xx
Moore Communications	0.0905	xx	Moore Communications	0.0830	xx
Metlfab - Grove Road	0.0217	xx	Metlfab - Grove Road	0.0212	xx
EU Services	0.1357	xx	EU Services	0.1245	xx
Editors Press	0.1236	xx	Editors Press	0.1137	xx
Craftsman Press - Holladay Tyler	0.2543	xx	Craftsman Press - Holladay Tyler	0.2333	xx
Printers II	0.0729	xx	Printers II	0.0669	xx
Peake Printers	0.1157	xx	Peake Printers	0.1062	xx
Corporate Press	0.0275	xx	Corporate Press	0.0252	xx
NOx RACT Non Utility		2.04	NOx RACT Non Utility		2.12
NOx SIP Call		227.88	NOx SIP Call		172.62
Total	2.15	229.92		2.02	174.74

POINT SOURCE VOC EMISSION REDUCTION ESTIMATES FOR 2005

Facility	Uncontrolled Emissions	Control Year	RACT/ Shutdown	Total Reduction	Controlled Emissions
DC Corrections - Lorton	0.236	2002	-0.236	-0.236	0.000
Stephenson Inc.	0.180	1999	-0.130		0.050
Tuscarora Plastics	0.373	1996	-0.145		0.228
Insulated Building	0.247	1996	-0.247	-0.247	0.000
Treasure Chest	0.333	1996	-0.200		0.133
Cellofoam	0.286	1996	-0.066		0.220
Brake Parts Inc.	0.226	1999	-0.223		0.003
TOTALS	1.881		-1.247	-0.483	0.634

Reduction Estimation Methodologies:

DC Correction/Lorton - Facility permanently closed.

Stephenson Inc. - Application of RACT (72% reduction).

Tuscarora Plastics - Application of RACT (39% reduction).

Insulated Building - Facility permanently closed.

Treasure Chest - Application of RACT (60% reduction).

Cellofoam - Application of RACT (23% reduction).

Brake Parts Inc. - Application of RACT (99% reduction).

POINT SOURCE NO_x EMISSION REDUCTION ESTIMATES FOR 2005

Facility	Uncontrolled Emissions	Control Year	RACT/ Shutdown	MWC Rule	NO _x Transport	Total Reduction	Controlled Emissions
Dominion Virginia Power - Possum Point	24.15	2002/2003	-8.98		-8.06	-17.04	7.11
Mirant - Potomac River	27.01	2002/2003	-9.11		-11.24	-20.35	6.66
Covanta - Fairfax	4.99	2002		-1.69		-1.69	3.30
Covanta - Alexandria/Arlington	1.87	2002		-0.55		-0.55	1.32
Transcontinental Gas Pipeline	5.67	1996	-4.88			-4.88	0.79
Washington Gas Light	1.44	1996	-1.24			-1.24	0.20
DC Corrections - Lorton	0.17	2002	-0.17			-0.17	0.00
TOTALS	65.29		-24.38	-2.24	-19.3	-45.92	19.38

Reduction Estimation Methodologies:

Dominion Virginia Power & Mirant - Emission reductions determined by applying an emission rate limit of 0.38 lbs/mmBtu for RACT and 0.15 lb/mmBtu for ozone transport to each facility. This is equivalent to an ozone season emissions cap of about 1,000 tons/season for each facility.

Covanta - Fairfax & Alexandria/Arlington - Emission reductions estimated by determining reduction percentages from uncontrolled emission rate for these facilities to the MWC rule emission rate of 205 parts per million.

Transcontinental Gas Pipeline - Emission reduction from the application of SCR control technology as a result of a RACT determination for the facility.

DC Corrections (Lorton) - Facility has permanently closed.

NOVA POINT SOURCE VOC PROJECTIONS

COUNTY	PLANT ID	PLANT NAME	NO-CONTROL 1990	CONTROLLED 1990
013	0010	PENTAGON RESERVATION	0.000	0.000
013	0018	ALRINGTON POLLUTION CONTROL	0.033	0.033
013	0196	OGDEN AVIATION SERVICES	0.011	0.011
059	0018	US ARMY FT BELVIER	0.085	0.085
059	0024	DC CORRECTIONS - LORTON	0.193	0.193
059	0034	EXXON MOBIL COMPANY	1.120	1.120
059	0061	AMOCO OIL	0.852	0.852
059	0063	CITGO PETROLEUM	0.676	0.676
059	0064	MOTIVA SPRINGFIELD	0.839	0.839
059	0069	MOTIVA ENTERPRISES	0.695	0.695
059	0074	CROWN CENTRAL	0.375	0.375
059	0082	OLD DOMINION TERMINAL	0.573	0.573
059	0281	NORMAN COLE POLLUTION CONTROL	0.027	0.027
059	0421	GEORGE BUSH CENTER	0.062	0.062
059	0430	UNITED LITHO SERVICES	0.031	0.031
059	0439	GANNETT OFFSET SPRINGFIELD	0.080	0.080
059	0551	STEPHENSON INC	0.127	0.127
059	0560	COVANTA - FAIRFAX	0.044	0.044
059	0575	MICHIGAN COGENERATION	0.033	0.033
059	0733	AMERICA ONLINE	0.000	0.000
107	0064	OGDEN AVIATION SERVICES	0.013	0.013
107	0073	TUSCARORA PLASTICS	0.305	0.305
107	0125	COLUMBIA GAS TRANSMISSION	0.033	0.033
107	0134	AMERICA ONLINE	0.000	0.000
107	0092	INSULATED BUILDING	0.202	0.202
153	0002	DOMINION - POSSUM POINT	0.189	0.189
153	0010	MCB - QUANTICO	0.012	0.012
153	0021	LOCKHEED MARTIN	0.120	0.120
153	0059	MANASSAS ICE & FUEL	0.030	0.030
153	0060	TOSCO - MANASSAS TERMINAL	0.552	0.552
153	0072	TREASURE CHEST	0.239	0.239
153	0086	TRANSCO GPL-185	0.134	0.134
153	0090	CITY OF MANASSAS/VMEA	0.008	0.008
179	0029	CELLOFOAM	0.235	0.235
179	0039	BRAKE PARTS INC	0.189	0.189
510	0001	VIRGINIA PAVING COMPANY	0.044	0.044
510	0003	MIRANT - POTOMAC RIVER	0.109	0.109
510	0139	COVANTA - ALEX/ARLINGTON	0.026	0.026
TOTALS			8.296	8.296

NOVA POINT SOURCE NOX PROJECTIONS

COUNTY	PLANT		NO-CONTROL	CONTROLLED	
	ID	PLANT NAME	1990	1990	
013	0010	PETAGON RESERVATION	0.160	0.160	70030
013	0018	ARLINGTON POLLUTION CONTR	0.030	0.030	70026
059	0018	US ARMY FT BELVIOR	0.391	0.391	70550
059	0024	DC CORRECTIONS - LORTON	0.200	0.200	70028
059	0056	WASHINGTON GAS LIGHT	1.394	1.394	70151
059	0281	NORMAN COLE POLLUTION COI	0.325	0.325	70714
059	0421	GEORGE BUSH CENTER	0.009	0.009	71757
059	0430	UNITED LITHO SERVICES	0.000	0.000	71865
059	0439	GANNETT OFFSET SPRINGFIELD	0.000	0.000	71883
059	0551	STEPHENSON PRINTING	0.000	0.000	71908
059	0560	COVANTA -FAIRFAX	4.990	4.990	71920
059	0575	MICHIGAN COGENERATION	0.300	0.300	71961
059	0733	AMERICA ONLINE	0.000	0.000	72296
107	0073	TUSCARORA INC	0.013	0.013	71814
107	0125	COLUMBIA GAS TRANSMISSION	0.134	0.134	72265
107	0134	AMERICA ONLINE	0.000	0.000	72346
153	0002	DOMINION - POSSUM PT	21.616	21.616	70225
153	0010	MCB - QUANTICO	0.493	0.493	70267
153	0021	LOCKHEED MARTIN	0.075	0.075	70261
153	0059	MANASAS FUEL & ICE	0.000	0.000	71196
153	0072	TREASURE CHEST ADVERT	0.000	0.000	71871
153	0086	TRANSCO GPL-185	5.508	5.508	71958
153	0090	CITY OF MANASAS/VMEA	0.226	0.226	71977
179	0029	CELEFOAM	0.000	0.000	40696
510	0001	VIRGINIA PAVING COMPANY	0.150	0.150	70579
510	0003	MIRANT - POTOMAC RIVER	23.268	23.268	70228
510	0139	COVANTA - ALEX/ARLINGTON	1.868	1.868	71895
			61.150	61.150	

NOVA POINT SOURCE VOC PROJECTIONS

COUNTY	PLANT ID	PLANT NAME	NO-CONTROL	CONTROLLED
			2002	2002
013	0010	PENTAGON RESERVATION	0.000	0.000
013	0018	ALRINGTON POLLUTION CONTO	0.033	0.033
013	0196	OGDEN AVIATION SERVICES	0.015	0.015
059	0018	US ARMY FT BELVIOR	0.100	0.100
059	0024	DC CORRECTIONS - LORTON	0.228	0.000
059	0034	EXXON MOBIL COMPANY	1.539	1.539
059	0061	AMOCO OIL	1.180	1.180
059	0063	CITGO PETROLEUM	0.933	0.933
059	0064	MOTIVA SPRINGFIELD	1.159	1.159
059	0069	MOTIVA ENTERPRISES	0.956	0.956
059	0074	CROWN CENTRAL	0.511	0.511
059	0082	OLD DOMINION TERMINAL	0.790	0.790
059	0281	NORMAN COLE POLLUTION CON	0.027	0.027
059	0421	GEORGE BUSH CENTER	0.084	0.084
059	0430	UNITED LITHO SERVICES	0.031	0.031
059	0439	GANNETT OFFSET SPRINGFIELD	0.080	0.080
059	0551	STEPHENSON INC	0.167	0.047
059	0560	COVANTA - FAIRFAX	0.044	0.044
059	0575	MICHIGAN COGENERATION	0.033	0.033
059	0733	AMERICA ONLINE	0.000	0.000
107	0064	OGDEN AVIATION SERVICES	0.018	0.018
107	0073	TUSCARORA PLASTICS	0.355	0.217
107	0125	COLUMBIA GAS TRANSMISSION	0.033	0.033
107	0134	AMERICA ONLINE	0.000	0.000
107	0092	INSULATED BUILDING	0.235	0.000
153	0002	DOMINION - POSSUM POINT	0.199	0.199
153	0010	MCB - QUANTICO	0.014	0.014
153	0021	LOCKHEED MARTIN	0.121	0.121
153	0059	MANASSAS ICE & FUEL	0.041	0.041
153	0060	TOSCO - MANASAS TERMINAL	0.765	0.765
153	0072	TREASURE CHEST	0.309	0.124
153	0086	TRANSCO GPL-185	0.137	0.137
153	0090	CITY OF MANASAS/VMEA	0.008	0.008
179	0029	CELLOFOAM	0.273	0.210
179	0039	BRAKE PARTS INC	0.220	0.003
510	0001	VIRGINIA PAVING COMPANY	0.044	0.044
510	0003	MIRANT - POTOMAC RIVER	0.123	0.123
510	0139	COVANTA - ALEX/ARLINGTON	0.026	0.026
TOTALS			10.831	9.645

NOVA POINT SOURCE NOX PROJECTIONS

COUNTY	PLANT		NO-CONTROL	CONTROLLED	
	ID	PLANT NAME	2002	2002	
013	0010	PENTAGON RESERVATION	0.160	0.160	70030
013	0018	ARLINGTON POLLUTION CONTR	0.030	0.030	70026
059	0018	US ARMY FT BELVIOR	0.391	0.390	70550
059	0024	DC CORRECTIONS - LORTON	0.186	0.000	70028
059	0056	WASHINGTON GAS LIGHT	1.429	0.790	70151
059	0281	NORMAN COLE POLLUTION COI	0.325	0.325	70714
059	0421	GEORGE BUSH CENTER	0.009	0.009	71757
059	0430	UNITED LITHO SERVICES	0.000	0.000	71865
059	0439	GANNETT OFFSET SPRINGFIELD	0.000	0.000	71883
059	0551	STEPHENSON PRINTING	0.000	0.000	71908
059	0560	COVANTA -FAIRFAX	4.992	3.300	71920
059	0575	MICHIGAN COGENERATION	0.300	0.300	71961
059	0733	AMERICA ONLINE	0.100	0.100	72296
107	0073	TUSCARORA INC	0.013	0.013	71814
107	0125	COLUMBIA GAS TRANSMISSION	0.134	0.134	72265
107	0134	AMERICA ONLINE	0.240	0.240	72346
153	0002	DOMINION - POSSUM PT	23.729	14.749	70225
153	0010	MCB - QUANTICO	0.418	0.398	70267
153	0021	LOCKHEED MARTIN	0.077	0.077	70261
153	0059	MANASAS FUEL & ICE	0.000	0.000	71196
153	0072	TREASURE CHEST ADVERT	0.000	0.000	71871
153	0086	TRANSCO GPL-185	5.636	0.790	71958
153	0090	CITY OF MANASAS/VMEA	0.226	0.226	71977
179	0029	CELEFOAM	0.000	0.000	40696
510	0001	VIRGINIA PAVING COMPANY	0.150	0.150	70579
510	0003	MIRANT - POTOMAC RIVER	26.388	17.278	70228
510	0139	COVANTA - ALEX/ARLINGTON	1.868	1.320	71895
			66.801	40.779	

NOVA POINT SOURCE VOC PROJECTIONS

COUNTY	PLANT ID	PLANT NAME	NO-CONTROL	CONTROLLED
			2005	2005
013	0010	PENTAGON RESERVATION	0.000	0.000
013	0018	ALRINGTON POLLUTION CONTO	0.033	0.033
013	0196	OGDEN AVIATION SERVICES	0.016	0.016
059	0018	US ARMY FT BELVIOR	0.103	0.103
059	0024	DC CORRECTIONS - LORTON	0.236	0.000
059	0034	EXXON MOBIL COMPANY	1.675	1.675
059	0061	AMOCO OIL	1.287	1.287
059	0063	CITGO PETROLEUM	1.016	1.016
059	0064	MOTIVA SPRINGFIELD	1.263	1.263
059	0069	MOTIVA ENTERPRISES	1.041	1.041
059	0074	CROWN CENTRAL	0.556	0.556
059	0082	OLD DOMINION TERMINAL	0.860	0.860
059	0281	NORMAN COLE POLLUTION CON	0.027	0.027
059	0421	GEORGE BUSH CENTER	0.092	0.092
059	0430	UNITED LITHO SERVICES	0.031	0.031
059	0439	GANNETT OFFSET SPRINGFIELD	0.080	0.080
059	0551	STEPHENSON INC	0.180	0.050
059	0560	COVANTA - FAIRFAX	0.044	0.044
059	0575	MICHIGAN COGENERATION	0.033	0.033
059	0733	AMERICA ONLINE	0.000	0.000
107	0064	OGDEN AVIATION SERVICES	0.019	0.019
107	0073	TUSCARORA PLASTICS	0.373	0.228
107	0125	COLUMBIA GAS TRANSMISSION	0.033	0.033
107	0134	AMERICA ONLINE	0.000	0.000
107	0092	INSULATED BUILDING	0.247	0.000
153	0002	DOMINION - POSSUM POINT	0.201	0.201
153	0010	MCB - QUANTICO	0.014	0.014
153	0021	LOCKHEED MARTIN	0.121	0.121
153	0059	MANASSAS ICE & FUEL	0.045	0.045
153	0060	TOSCO - MANASAS TERMINAL	0.835	0.835
153	0072	TREASURE CHEST	0.333	0.133
153	0086	TRANSCO GPL-185	0.138	0.138
153	0090	CITY OF MANASAS/VMEA	0.008	0.008
179	0029	CELLOFOAM	0.286	0.220
179	0039	BRAKE PARTS INC	0.226	0.003
510	0001	VIRGINIA PAVING COMPANY	0.044	0.044
510	0003	MIRANT - POTOMAC RIVER	0.126	0.126
510	0139	COVANTA - ALEX/ARLINGTON	0.026	0.026
TOTALS			11.648	10.401

NOVA POINT SOURCE NOX PROJECTIONS

COUNTY	PLANT		NO-CONTROL	CONTROLLED	
	ID	PLANT NAME	2005	2005	
013	0010	PENTAGON RESERVATION	0.160	0.160	70030
013	0018	ARLINGTON POLLUTION CONTR	0.030	0.030	70026
059	0018	US ARMY FT BELVIOR	0.360	0.360	70550
059	0024	DC CORRECTIONS - LORTON	0.174	0.000	70028
059	0056	WASHINGTON GAS LIGHT	1.440	0.790	70151
059	0281	NORMAN COLE POLLUTION COI	0.325	0.325	70714
059	0421	GEORGE BUSH CENTER	0.008	0.008	71757
059	0430	UNITED LITHO SERVICES	0.000	0.000	71865
059	0439	GANNETT OFFSET SPRINGFIELD	0.000	0.000	71883
059	0551	STEPHENSON PRINTING	0.000	0.000	71908
059	0560	COVANTA -FAIRFAX	4.993	3.300	71920
059	0575	MICHIGAN COGENERATION	0.300	0.300	71961
059	0733	AMERICA ONLINE	0.100	0.100	72296
107	0073	TUSCARORA INC	0.013	0.013	71814
107	0125	COLUMBIA GAS TRANSMISSION	0.134	0.134	72265
107	0134	AMERICA ONLINE	0.240	0.240	72346
153	0002	DOMINION - POSSUM PT	24.148	7.110	70225
153	0010	MCB - QUANTICO	0.398	0.398	70267
153	0021	LOCKHEED MARTIN	0.077	0.077	70261
153	0059	MANASAS FUEL & ICE	0.000	0.000	71196
153	0072	TREASURE CHEST ADVERT	0.000	0.000	71871
153	0086	TRANSCO GPL-185	5.673	0.790	71958
153	0090	CITY OF MANASAS/VMEA	0.226	0.226	71977
179	0029	CELEFOAM	0.000	0.000	40696
510	0001	VIRGINIA PAVING COMPANY	0.150	0.150	70579
510	0003	MIRANT - POTOMAC RIVER	27.005	6.660	70228
510	0139	COVANTA - ALEX/ARLINGTON	1.868	1.320	71895
			67.820	22.491	

Changes to Maryland Point Source Inventory due to New 25 tpy NOx Threshold and Changes in Summer Seasonal Throughput Percentages

County	Premise ID	Company Name	SIC	VOC (tons per ozone day)			Difference	Reason for Change
				1990	2005	2005 Old COG Number		
Charles	0014	POTOMAC ELECTRIC MORGANTOWN	4911	0.3626	0.3626	0.3	0.0626	
Charles	0040	NAVAL SURFACE WARFARE CNTR-INDIAN HD	9711	1.0617	1.249073	1.25	-0.00093	
Charles	0072	AUTOMATED GRAPHIC SYSTEMS	2731	0.0465	0.069099	0.07	-0.0009	
Frederick	0003	LEHIGH PORTLAND CEMENT	3295	0.002	0.002402 xx		0.002402	VOC tpd not counted because source considered to be only a major NOx source.
Frederick	0005	EASTALCO ALUMINUM	3334	0.0025	0.003441 xx		0.003441	VOC tpd not counted because source considered to be only a major NOx source.
Frederick	0010	MOORE COMMUNICATIONS SERVICES	2761	0.087	0.129282	0.13	-0.00072	
Frederick	0013	ESSROC MATERIALS	3241	0.0035	0.004204 xx		0.004204	VOC tpd not counted because source considered to be only a major NOx source.
Frederick	0029	GENSTAR STONE PRODUCTS - FRED. PLT 1	3295	0.0528	0.061417	0.05	0.011417	
Frederick	0037	KLINER, RICHARD F., INC.	2951	0.1188	0.138188 NEW		0.138188	New VOC Source
Frederick	0131	FORT DETRICK	9711	0.0365	0.036331 xx		0.036331	VOC tpd not counted because source considered to be only a major NOx source.
Frederick	0254	CANAM STEEL	3441	0.764	1.292535	1.29	0.002535	
Frederick	0317	METALFAB - GROVE ROAD	3479	0.0405	0.049341	0.05	-0.00066	
Frederick	0320	FREDERICK MOTOR COMPANY	5511	0.038	0.046295	0.05	-0.0037	
Montgomery	0019	POTOMAC ELECTRIC DICKERSON	4911	0.1379	0.160041	0.17	-0.00996	
Montgomery	0224	GIANT FOOD - SILVER SPRING	2051	0.204	0.22507	0.23	-0.00493	
Montgomery	0324	NATIONAL INSTITUTE OF HEALTH	9431	0.0175	0.017185 xx		0.017185	VOC tpd not counted because source considered to be only a major NOx source.
Montgomery	1078	GORDON'S, HERB AUTO WORLD	5511	0.037	0.045077	0.05	-0.00492	
Montgomery	1124	NATIONAL NAVAL MEDICAL CENTER	9711	0.01642	0.016197 NEW		0.016197	New VOC Source
Montgomery	1396	EU SERVICES	2752	0.1305	0.193923	0.19	0.003923	
Montgomery	1565	GUDE/SOUTHLAWN LANDFILL	4953	0.0795	0.0795	0.08	-0.0005	
Montgomery	1673	PRESSTAR PRINTING CORPORATION	2752	0.0545	0.080987	0.08	0.000987	
Montgomery	1680	SMITH LITHO	2752	0.075	0.11145	0.11	0.00145	
Montgomery	1761	REPRODUCTIONS - RICKENBACKER DRIVE	2752	0.0495	0.073557	0.07	0.003557	
Prince George's	0010	UNIVERSITY OF MARYLAND	8221	0.0127	0.013152 xx		0.013152	VOC tpd not counted because source considered to be only a major NOx source.
Prince George's	0014	POTOMAC ELECTRIC - CHALK POINT	4911	0.45108	0.481554	0.45	0.031554	
Prince George's	0069	SMITH, A.H. - BRANDYWINE #2	2951	0.1188	0.138188	0.06	0.078188	
Prince George's	0096	DURON, INCORPORATED	2911	0.222	0.264146	0.26	0.004146	
Prince George's	0429	STONE INDUSTRIAL	2655	0.116	0.141327	0.14	0.001327	
Prince George's	0476	EDITORS PRESS	2752	0.11882	0.176567	0.19	-0.01343	
Prince George's	0543	SAFEWAY BREAD PLANT	2051	0.264	0.291271	0.24	0.051271	
Prince George's	0578	CRAFTSMAN PRESS	2751	0.0585	0.086931	0.09	-0.00307	
Prince George's	0655	ANDREWS AIR FORCE BASE	9711	0.2459	0.31046	0.3	0.01046	
Prince George's	0667	AGRICULTURAL RESEARCH CENTER	8733	0.0015	0.0015 NEW		0.0015	New VOC Source
Prince George's	0951	HOLLADAY TYLER PRINTING	2752	0.2445	0.363327	0.36	0.003327	
Prince George's	1091	CAIRNS, BILL PONTIAC	5511	0.0535	0.065179	0.07	-0.00482	
Prince George's	1133	PRINTERS II	2759	0.1115	0.165689	0.17	-0.00431	
Prince George's	1322	KELLY PRESS	2752	0.0805	0.119525	0.12	-0.00047	
Prince George's	1511	PEAKE PRINTERS	2752	0.177	0.263022	0.26	0.003022	
Prince George's	1666	CORPORATE PRESS	2752	0.042	0.062412	0.06	0.002412	
TOTAL				5.73652	7.391447	6.94	0.451447	

Changes to Maryland Point Source Inventory due to New 25 tpy NOx Threshold and Changes in Summer Seasonal Throughput Percentages

County	Premise ID	Company Name	NOx (tons per ozone day)			2005	2005 Old COG Number	Difference	Reason for Change
			SIC	1990	1990 Old COG Number				
Charles	0014	POTOMAC ELECTRIC MORGANTOWN	4911	131.5024	112.5100	131.5024	112.51	18.9924	Summer percent is 30% not 25%
Charles	0040	NAVAL SURFACE WARFARE CNTR-INDIAN HD	9711	1.3560	2.1800	1.0814	1.77	-0.6885835	Many facility sources do not operate in the summer
Charles	0072	AUTOMATED GRAPHIC SYSTEMS	2731	0.0000	0.0000	0.0000	xx	none	
Frederick	0003	LEHIGH PORTLAND CEMENT	3295	0.9600	0.9600	1.1531	1.15	none	
Frederick	0005	EASTALCO ALUMINUM	3334	0.1510	0.1500	0.2049	0.2	none	
Frederick	0010	MOORE COMMUNICATIONS SERVICES	2761	0.0000	0.0000	0.0000	xx	none	
Frederick	0013	ESSROC MATERIALS	3241	11.7313	11.7300	14.0899	14.09	none	
Frederick	0029	GENSTAR STONE PRODUCTS - FRED. PLT 1	3295	0.0011	0.0000	0.0006	xx		NOx tpd not counted because source considered to be only a major VOC source.
Frederick	0037	KLINE, RICHARD F., INC.	2951	0.2170	xx	0.2524			New NOx Source
Frederick	0131	FORT DETRICK	9711	0.8966	0.6300	0.9052	0.65	0.2551797	Summer throughputs change
Frederick	0254	CANAM STEEL	3441	0.0000	0.0000	0.0000	xx	none	
Frederick	0317	METALFAB - GROVE ROAD	3479	0.0025	0.0000	0.0024	xx	0.0024366	NOx tpd not counted because source considered to be only a major VOC source.
Frederick	0320	FREDERICK MOTOR COMPANY	5511	0.0010	0.0000	0.0000	xx	none	
Montgomery	0019	POTOMAC ELECTRIC DICKERSON	4911	33.9882	38.7300	39.3837	42.6	-3.2163268	Summer percent is 23% not 25%
Montgomery	0224	GIANT FOOD - SILVER SPRING	2051	0.0180	0.0000	0.0198	xx	0.019809	NOx tpd not counted because source considered to be only a major VOC source.
Montgomery	0324	NATIONAL INSTITUTE OF HEALTH	9431	0.7515	0.9200	0.6933	0.85	-0.1566544	
Montgomery	1078	GORDON'S, HERB AUTO WORLD	5511	0.0000	0.0000	0.0000	xx	none	
Montgomery	1124	NATIONAL NAVAL MEDICAL CENTER	9711	0.1707	xx	0.1792			New NOx Source
Montgomery	1396	EU SERVICES	2752	0.0000	0.0000	0.0000	xx	none	
Montgomery	1565	GUDE/SOUTHLAWN LANDFILL	4953	0.1855	0.1900	0.1855	0.19	none	
Montgomery	1673	PRESSTAR PRINTING CORPORATION	2752	0.0015	0.0000	0.0022	xx	0.002229	NOx tpd not counted because source considered to be only a major VOC source.
Montgomery	1680	SMITH LITHO	2752	0.0015	0.0000	0.0022	xx	0.002229	NOx tpd not counted because source considered to be only a major VOC source.
Montgomery	1761	REPRODUCTIONS - RICKENBACKER DRIVE	2752	0.0000	0.0000	0.0000	xx	none	
Prince George's	0010	UNIVERSITY OF MARYLAND	8221	0.6554	0.4900	0.6783	0.49	0.1883468	Summer throughputs change
Prince George's	0014	POTOMAC ELECTRIC - CHALK POINT	4911	109.3354	96.6600	122.9798	110.64	12.339784	Summer throughputs change
Prince George's	0069	SMITH, A.H. - BRANDYWINE #2	2951	0.1236	0.0000	0.1425	xx	0.1425289	NOx tpd not counted because source considered to be only a major VOC source.
Prince George's	0096	DURON, INCORPORATED	2911	0.0000	0.0000	0.0000	xx	none	
Prince George's	0429	STONE INDUSTRIAL	2655	0.0015	0.0000	0.0018	xx	0.0018275	NOx tpd not counted because source considered to be only a major VOC source.
Prince George's	0476	EDITORS PRESS	2752	0.0092	0.0000	0.0137	xx	0.0137306	NOx tpd not counted because source considered to be only a major VOC source.
Prince George's	0543	SAFEWAY BREAD PLANT	2051	0.0100	0.0000	0.0110	xx	0.0110302	NOx tpd not counted because source considered to be only a major VOC source.
Prince George's	0578	CRAFTSMAN PRESS	2751	0.0050	0.0000	0.0074	xx	0.00743	NOx tpd not counted because source considered to be only a major VOC source.
Prince George's	0655	ANDREWS AIR FORCE BASE	9711	0.2756	0.9800	0.2545	0.9	-0.6455433	Summer throughputs change
Prince George's	0667	AGRICULTURAL RESEARCH CENTER	8733	0.0539	xx	0.0498			New NOx Source
Prince George's	0951	HOLLADAY TYLER PRINTING	2752	0.0120	0.0000	0.0178	xx	0.017832	NOx tpd not counted because source considered to be only a major VOC source.
Prince George's	1091	CAIRNS, BILL PONTIAC	5511	0.0000	0.0000	0.0000	xx	none	
Prince George's	1133	PRINTERS II	2759	0.0045	0.0000	0.0067	xx	0.006687	NOx tpd not counted because source considered to be only a major VOC source.
Prince George's	1322	KELLY PRESS	2752	0.0000	0.0000	0.0000	xx	none	
Prince George's	1511	PEAKE PRINTERS	2752	0.0000	0.0000	0.0000	xx	none	
Prince George's	1666	CORPORATE PRESS	2752	0.0000	0.0000	0.0000	xx	none	
		TOTAL		292.4220	266.1300	313.8217		27.296372	

Appendix F

Use of NO_x Substitution in Rate of Progress RACT Fix-Up Documentation

MEMORANDUM

February 26, 2003

To: Severe SIP File

From: Beth Lowe, MWCOG/DEP

Subject: VOC-NOx Substitution for Demonstration of Rate of Progress

The following memo summarizes EPA guidance for determining what percentage of NOx can be substituted for the VOC reductions required to meet the 9% Rate of Progress requirement.

In its December 1993 “NOx Substitution Guidance”, EPA says that states can justify substituting NOx for VOC in a rate of progress demonstration if they can demonstrate “consistency” between the modeled attainment inventory and the proposed rate of progress reductions.

In order to demonstrate consistency, states must demonstrate that the percentage reduction of NOx used in demonstrating all rates of progress does not exceed the percentage reduction of NOx assumed in the region’s attainment modeling. The following paragraphs demonstrate that use of 9% NOx reductions for the 2002 and 2005 ROP demonstrations is consistent with the Washington region’s attainment modeling:

To determine the percentage NOx reduction shown in the region’s attainment modeling, we calculate the percentage change between the 1990 modeled baseline and the modeled attainment inventory:

1990 Modeled Base Year Inventory (tpd NOx):	728.8
Modeled Attainment Inventory (tpd NOx):	515.3
Percentage NOx Reduction Needed:	29.3%

[Reference: State Implementation Plan (SIP) Revision to the Phase II Attainment Plan for the Washington DC-MD-VA Nonattainment Area, Table 3-1.]

We then calculate the total percentage NOx reduction we expect to use in demonstrating reasonable further progress during the period 1990-2005:

NOx Reductions Used in 15% Plan:	0%
NOx Reductions Used in 1999 ROP:	8%
Maximum NOx Reductions for 2002 ROP:	9%
Maximum NOx Reductions for 2005 ROP:	9%
Total Possible NOx Reductions 1999-2005:	26%

As the total 26% NOx reduction the Washington region could use to meet rate of progress from 1990-2005 does not exceed the 29.3% NOx reduction shown in the modeling demonstration, we conclude that the Washington region can demonstrate rate of progress using 9% NOx, 0% VOC in both the 1999-2002 and 2002-2005 rate of progress demonstrations.

Calculation of RACT Fix-Up Loudoun County Stage I Refueling

1 April 2003

Methodology as described in Appendix B of "Guidance on the Adjusted Base Year Emissions Inventory and the 1996 Target for the 15 Percent Rate-of-Progress Plans"

Approved by Chris Cripps, EPA Region III on 1 April 2003

Baseline Emissions		
1990 Loudoun Tank Truck Emissions (uncontrolled)	0.315	tpd VOC

Calculate 1996 Controlled Emissions		
1996 Loudoun Tank Truck Emissions (uncontrolled)	0.355	tpd VOC
Control Efficiency	90%	
Rule Effectiveness	80%	
1996 Loudoun Tank Truck Emissions (controlled)	0.2556	tpd VOC

Size of Ract Fix-Up		
1990 Uncontrolled - 1996 Controlled	0.059	tpd VOC

Therefore 0.059 tpd VOC is subtracted from the 1996 VOC Target Level.