

Memo

To: Joan Rohlfs, Sunil Kumar
cc: Mike Clifford, Daivamani Sivasailam, SIP files
From: Eulalie G. Lucas
Date: October 4, 2006
Re: Final Results for Mobile inventories for 8-hour ozone SIP

This memo transmits the final set of emission results associated with the 8-hour ozone SIP. The attached tables show results for all milestone years for the scenarios described in Sunil's memo dated January 23, 2006. Travel data for 2002 were prepared in the fall of 2005 as part of the 2005 Constrained Long Range Plan (CLRP) and the FY 2006-2011 Transportation Improvement Plan (TIP). Rates were prepared by DEP staff and checked for consistency by DTP staff. Emissions associated with Stafford County were removed from these results in accordance with the revised geography for the non-attainment area.

The tables are arrayed as follows: Attachment 1 shows total non-attainment area VOC and NOx emissions by year and trip cycle. Attachments 2 through 7 show these emissions by state (excluding the 'adjusted' inventories for 2002 and 2008) per Joan's request dated 8/15/2006. Note the 70.98 tons per day of VOC emissions in the 2008 controlled inventory reflect a slight revision since the previous transmittal. Files will also be forwarded in electronic format.

Attachment 1 8-Hour Ozone SIP

SIP Mobile Emissions Inventories

(Tons/Day)

	BASE 2002		2002 Adjusted		2008 Adjusted		2008 Controlled		2009 Controlled	
	VOC	NOx	VOC	NOx	VOC	NOx	VOC	NOx	VOC	NOx
I Network										
Start	24.77	12.58	35.57	22.33	29.69	21.43	12.83	7.23	11.88	6.64
Running	55.26	229.04	79.94	258.29	74.03	228.49	30.71	135.55	28.62	123.21
Soak	11.26	-----	14.27	-----	15.63	-----	10.06	-----	9.71	-----
II Off-Network										
Diurnal	2.36	-----	3.65	-----	3.31	-----	1.90	-----	1.84	-----
Resting Loss	11.93	-----	15.00	-----	14.43	-----	9.03	-----	8.59	-----
Local Roads	9.33	11.16	15.19	13.04	14.25	12.67	5.11	6.99	4.75	6.38
School Buses	0.42	5.97	0.47	6.23	0.46	6.26	0.40	5.23	0.38	4.97
Transit Buses	0.38	6.43	0.57	6.46	0.45	5.75	0.22	4.42	0.23	4.52
Auto Access	1.24	1.47	1.88	1.90	1.85	2.02	0.72	0.88	0.68	0.80
Total	116.94	266.65	166.55	308.24	154.10	276.63	70.98	160.30	66.68	146.53

Note: 2008 adjusted reflects 2002 vehicle fleet for diurnals and resting loss

ATTACHMENT 2

**MOBILE SOURCE EMISSIONS INVENTORY
FOR VOC BY STATE**

Base 2002

DISTRICT OF COLUMBIA	13.09
MARYLAND	56.13
VIRGINIA	47.71
TOTAL	116.94

ATTACHMENT 3

**MOBILE SOURCE EMISSIONS INVENTORY
FOR NOX BY STATE**

Base 2002

DISTRICT OF COLUMBIA	23.70
MARYLAND	132.27
VIRGINIA	110.68
TOTAL	266.65

ATTACHMENT 4

MOBILE SOURCE EMISSIONS INVENTORY FOR VOC BY STATE

2008 Controlled

DISTRICT OF COLUMBIA	7.47
MARYLAND	33.86
VIRGINIA	29.65
TOTAL	70.98

ATTACHMENT 5

MOBILE SOURCE EMISSIONS INVENTORY FOR NOX BY STATE

2008 Controlled

DISTRICT OF COLUMBIA	15.25
MARYLAND	77.85
VIRGINIA	67.20
TOTAL	160.30

ATTACHMENT 6

MOBILE SOURCE EMISSIONS INVENTORY FOR VOC BY STATE

2009 Controlled

DISTRICT OF COLUMBIA	6.88
MARYLAND	31.64
VIRGINIA	28.15
TOTAL	66.68

ATTACHMENT 7

MOBILE SOURCE EMISSIONS INVENTORY FOR NOX BY STATE

2009 Controlled

DISTRICT OF COLUMBIA	14.16
MARYLAND	70.94
VIRGINIA	61.44
TOTAL	146.53