Estimated Emission Reductions for The Memphis EAC 2007 -Revised 11/25/03 Based on Shelby Co Submittal-Bob Rogers & Input from Quincy Styke

Measures Dropped by Shelby Co Measures Included by Shelby Co

Memphis EAC - Parameters																		
2000 Population	28806	28806	28806	897472	897472	897472	51271	51271	51271	50866	50866	50866	107199	107199	107199	1135614		
2007 DVMT	1862828	1862828	1862828	30500246	30500246	30500246	1222337	1222337	1222337	2427132	2427132	2427132	7378320	7378320	7378320	43390863		
2007 Diesel DVMT	241065	241065	241065	1914156	1914156	1914156	62358	62358	62358	104242	104242	104242	954815	954815	954815	3276636		
2007 Arterial DVMT	58115	58115	58115	879794	879794	879794	59011	59011	59011	73875	73875	73875	230185	230185	230185	1300980		
Truck Parking Spaces	241	241	241	1914	1914	1914	62	62	62	104	104	104	955	955	955	3277		
	Fayette, TN			Shelby, TN			Tipton, TN			Crittenden, AR			DeSoto, MS			**Totals**	**Totals**	**Totals**
Control Measures by	NOx	VOC	CO	NOx	VOC	CO	NOx	VOC	CO	NOx	VOC	CO	NOx	VOC	CO	**NOx**	**VOC**	**CO**
Source Category	TPD	TPD	TPD	TPD	TPD	TPD	TPD	TPD	TPD	TPD	TPD	TPD	TPD	TPD	TPD	**TPD**	**TPD**	**TPD**
Area Sources										**To Be Provided by Arkansas**			**To Be Provided by Mississippi**					
Open Burning Ban -resid. Garbage2A.	0.01	0.01	0.07	0	0	0	0.01	0.01	0.13							0.01	0.02	0.2
Open Burning Ban -yard waste2B.	0.00	0.01	0.04	0	0	0	0.00	0.01	0.07							0.00	0.02	0.1
Open Burning Ban - Land clearing2C.	0.07	0.28	1.82	2.24	8.71	32.90	0.13	0.50	2.23							2.44	9.48	37.0
Lower gas RVP (from 7.8 to 7.0)	0	0	0	0	0	0	0	0	0							0.00	0.00	0.0
Lower gas RVP (from 9.0 to 7.8)	0	0.00	0	0	0	0	0	0.00	0							0.00	0.00	0.0
Stage I Controls at Gas Stations.	0	0.37	0	0	0	0	0	0.24	0							0.00	0.62	0.0
Stage II Controls at Gas Stations.	0	0.00	0	0	0	0	0	0.00	0							0.00	0.00	0.0
Ozone Action Day (Reduce VMT 1%)	0.02	0.02	0.27	0	0	0	0.01	0.02	0.18							0.03	0.04	0.4
Nonroad Mobile																		
Construction Equipment (All New).	0	0	0	0	0	0	0	0	0							0.00	0.00	0.0
New airport vehicles.18.	0	0	0	0	0	0	0	0	0							0.00	0.00	0.0
Onroad Mobile																		
Intelligent transportation sys (CMAQ Report)				0.159	0.061	0.66										0.16	0.06	0.7
Inspect & Main) I/M 5% waiv OBD county wi	0.0	0.0	0.0	1.1	1.0	16.9	0.0	0.0	0.0							1.12	0.96	16.9
Lower interstate truck speeds by 10 mph.	0.8	0.0	0	6.7	0.0	0	0.0	0.0	0							7.58	-0.02	0.0
Truck stop electrification	0.20	0.02	0.17	0	0	0	0.00	0.00	0.00							0.20	0.02	0.2
Cetane Additives to Diesel Fuel (3% - NOx)	0.00	0	0	0	0	0	0.00	0	0							0.00	0.00	0.0
Anti-idling Legis. (1% veh idle 5 min/day)	0.0004	0.0004	0.0025	0.0117	0.0117	0.0791	0.0007	0.0007	0.0045							0.01	0.01	0.1
Transit (increase bus ridership 10%)	0	0	0	0	0	0	0	0	0							0.00	0.00	0.0
Voluntary Control Measures (6% of mandated reductions)				0.907	0.584	7.519										0.91	0.58	7.5
Point Sources (50% NOx Reduction)																		
50 Ton NOx/Year RACT Rule																		
Texas Gas	0	0	0				0	0	0							0.00	0.00	0.0
P&G, Dupont, Mapco, Arcadian, Witco																		
Kraft, Kim-Clark, Naval Air, Kellogg, FedEx	0	0	0	4.9	0	0	0	0	0							4.90	0.00	0.0
Summary of Results for 2007																		
Total TPD Potential Reductions	1.14	0.71	2.37	16.07	10.30	58.04	0.15	0.79	2.61	0.0	0.0	0.0	0.0	0.0	0.0	17.36	11.79	63.0
TPD Emis. Without Controls (from SAI)	10.1	10.2	33.2	153.6	150.9	657.0	14.2	7.9	29.9	26.7	19.9	55.8	23.2	19.5	108.3	227.80	208.52	884.1
Percent Reduction from New Controls	11.3%	6.9%	7.1%	10.5%	6.8%	8.8%	1.1%	10.0%	8.7%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	7.6%	5.7%	7.1%
Total Emis Reductions by Source Category																		
Area Sources	0.08	0.67	1.93	2.24	8.71	32.90	0.14	0.77	2.43									
Mobile Sources (incls O3 Action Days)	1.064	0.041	0.440	8.923	1.596	25.140	0.013	0.021	0.182									
Non-Road Mobile	0	0	0	0	0	0	0	0	0									
Low-level Point	0	0	0	0	0	0	0	0	0									
Elev. Point	0	0	0	4.9	0	0	0	0	0									
Total	1.14	0.71	2.37	16.07	10.30	58.04	0.15	0.79	2.61									
Total Emis W/O Controls by Source Category from SAI																		
Area Sources	0.39	7.3	2.15	9.97	99.75	36.59	0.19	4.81	2.71									
Mobile Sources (incls O3 Action Days)	6.57	2.04	25.27	48.23	27.49	317.73	2.04	1.63	18.5									
Non-Road Mobile	3.14	0.61	5.81	46.47	13.18	287.17	10.19	1.02	8.54									
Low-level Point	0.01	0.27	0	1.43	8.11	8.98	0	0.18	0									
Elev. Point	0	0	0	47.51	2.4	6.54	1.75	0.26	0.14									
	10.11	10.22	33.23	153.61	150.93	657.01	14.17	7.9	29.89									
Percent Reduction by Source Category																		
Area Sources	20.08%	9.12%	89.88%	22.50%	8.73%	89.92%	73.37%	15.92%	89.67%									
Mobile Sources (incls O3 Action Days)	16.20%	2.01%	1.74%	18.50%	5.81%	7.91%	0.63%	1.28%	0.99%									
Non-Road Mobile	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%									
Low-level Point	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%									
Elev. Point	0.00%	0.00%	0.00%	10.31%	0.00%	0.00%	0.00%	0.00%	0.00%									