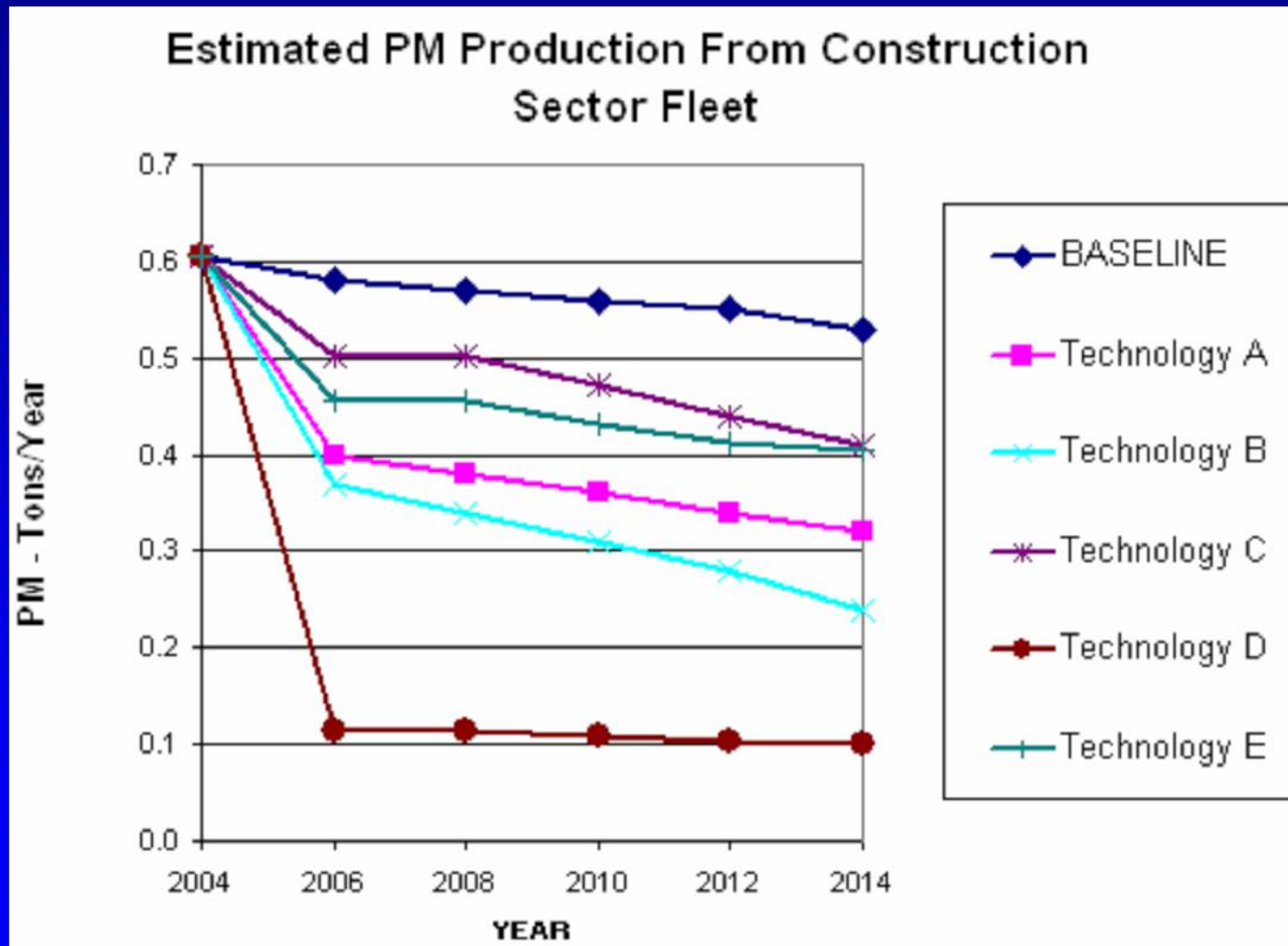

Evaluating the Impact of Fleet Characteristics on Diesel Emission Reduction

U.S. EPA Mid-Atlantic Diesel Collaborative

March 21, 2007

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Emphasis Should Be on **FLEET** Emission Levels and Reductions



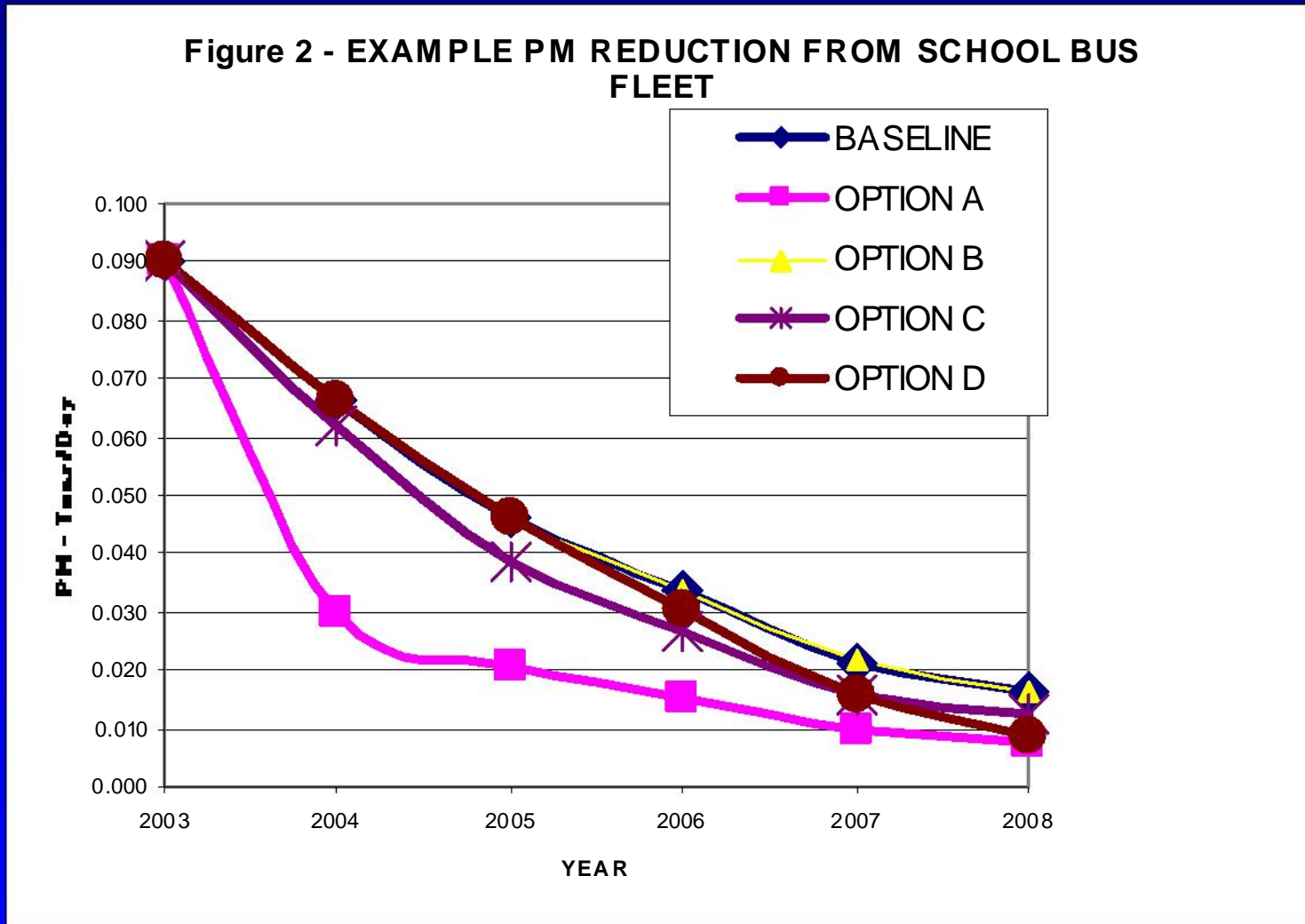
Results are function of combination of fleet AND technology application characteristics

Impact of Fleet-Related Factors on Emission Reductions

Number of Pieces of Equipment	Base PM Emissions – Tons/Yr	Retrofit Product Emission Reduction -%	Retrofit Product Emission Reduction – Tons/Yr	Remaining Life - Yrs	Emission Reductions Over Remaining Life - Tons
Agricultural Tractor Fleet					
25 – Total*	1.680	DOC-30%	0.504	7	3.53
18 – Possible	1.209	DOC-30%	0.363	7	2.54
25 – Total*	1.680	DPF-85%	1.428	7	9.99
6 – Possible	0.403	DPF-85%	0.343	7	2.40
25 - Possible	1.680	B20-20%	0.336	7	2.35
Construction Equipment Fleet					
25 – Total*	0.720	DOC-30%	0.216	9	1.94
16 – Possible	0.461	DOC-30%	0.138	9	1.24
25 – Total*	0.720	DPF-85%	0.612	9	5.51
5 – Possible	0.144	DPF-85%	0.122	9	1.10
25 - Possible	0.720	B20-20%	0.144	9	1.30

*** Total equipment in fleet, but NOT possible to be retrofitted**

Example 5-Year PM Emission Reduction Candidates



NOx Emission Reduction Candidates

