

**POTENTIAL IMPACTS OF VIN & EMISSIONS MODEL CHANGES
ON THE 2012 CLRP AIR QUALITY CONFORMITY DETERMINATION
– A SENSITIVITY TEST**

TPB Technical Committee Meeting
July 6, 2012

THE POTENTIAL IMPACT OF VIN CHANGES

2012 Constrained Long Range Plan

Year 2020

MOVES 2010a	Pollutants	Emissions Comparisons			
		2011 VIN Basis	2008 VIN Basis	Differences	Ratios
	VOC 8-hr (t/d)	47.25	42.43	4.82	1.114
	NOX 8-hr (t/d)	90.75	79.81	10.94	1.137
	Precursor NOX (t/y)*	32,777.29	29,007.95	3,769.34	1.130
	Direct PM2.5 (t/y)*	1,475.27	1,327.40	147.87	1.111

Year 2040

MOVES 2010a	Pollutants	Emissions Comparisons			
		2011 VIN Basis	2008 VIN Basis	Differences	Ratios
	VOC 8-hr (t/d)	46.76	43.26	3.50	1.081
	NOX 8-hr (t/d)	72.24	67.93	4.31	1.063
	Precursor NOX (t/y)*	26,546.14	25,094.21	1,451.93	1.058
	Direct PM2.5 (t/y)*	1,339.81	1,276.37	63.44	1.050

THE POTENTIAL IMPACT OF EMISSION MODEL CHANGES

2012 Constrained Long Range Plan (2011 VIN Basis)

Year 2020

Pollutants	Emissions Inventories		Differences	Ratios
	Mobile6.2	MOVES2010a		
VOC 8-hr (t/d)	40.60	47.25	6.65	1.164
NOX 8-hr (t/d)	50.82	90.75	39.93	1.786
Precursor NOX (t/y)*	17,891.10	32,777.29	14,886.19	1.832
Direct PM2.5 (t/y)*	713.73	1,475.27	761.54	2.067

Year 2040

Pollutants	Emissions Inventories		Differences	Ratios
	Mobile6.2	MOVES2010a		
VOC 8-hr (t/d)	40.99	46.76	5.77	1.141
NOX 8-hr (t/d)	35.05	72.24	37.19	2.061
Precursor NOX (t/y)*	12,732.28	26,546.14	13,813.86	2.085
Direct PM2.5 (t/y)*	764.21	1,339.81	575.60	1.753