

## Appendix 5

Post Process

*Source: TTI, 2009*

### **Post-Process Adjustments to the Emission Factors**

The following adjustment steps were done to the emission factors output of POLFACT62\_3 for all counties.

#### **RATEADJV62DK**

RATEADJV62DK is a special utility that produces a new set of emissions factors by applying emissions factor adjustments to each pollutant, emissions type, and vehicle type. RATEADJV62DK can be applied to emissions rates produced by POLFAC62\_3, RATEADJV62DK, RATEADJ62DK, or RATEADJV62hrDK.

A practical application of RATEADJV62DK is the application of emissions factor credits by individual vehicle class and/or individual pollutant. For example, for analyses requiring the effects of the Texas Low-Emission Diesel (TxLED) fuel program in MOBILE6 emissions factors, RATEADJV62DK may be used to apply reduction factors to the NOx emissions factors for diesel-fueled vehicle classes only. In our case we used this utility to calculate the emission reductions due to the Motorcycle Rule and the TxLED.

**Table 1**  
**TxLED Adjustment Factors**

<b>Diesel Vehicle Type</b>	<b>2011</b>		<b>2018</b>		<b>2025</b>		<b>2035</b>	
	<b>NOx Reduction</b>	<b>Adjustment Factor</b>						
<b>LDDV</b>	5.89%	0.9411	5.39%	0.9461	4.89%	0.9511	4.80%	0.9520
<b>LDDT12</b>	6.20%	0.9380	6.20%	0.9380	0.00%	0.0000	0.00%	0.0000
<b>HDDV2b</b>	4.93%	0.9507	4.88%	0.9512	4.84%	0.9517	4.80%	0.9520
<b>HDDV3</b>	5.05%	0.9495	4.90%	0.9510	4.83%	0.9517	4.80%	0.9520
<b>HDDV4</b>	5.19%	0.9481	4.96%	0.9504	4.87%	0.9513	4.80%	0.9520
<b>HDDV5</b>	5.08%	0.9492	5.08%	0.9492	4.96%	0.9507	4.80%	0.9520
<b>HDDV6</b>	5.28%	0.9472	5.05%	0.9495	4.89%	0.9510	4.80%	0.9520
<b>HDDV7</b>	5.37%	0.9463	5.09%	0.9491	4.89%	0.9510	4.80%	0.9520
<b>HDDV8a</b>	5.71%	0.9429	5.30%	0.9470	4.99%	0.9504	4.80%	0.9520
<b>HDDV8b</b>	5.31%	0.9469	4.96%	0.9504	4.84%	0.9514	4.80%	0.9520
<b>HDDBT</b>	5.60%	0.9440	5.05%	0.9495	4.93%	0.9507	4.80%	0.9520
<b>HDDBS</b>	5.75%	0.9425	5.63%	0.9437	5.34%	0.9466	4.80%	0.9520
<b>LDDT34</b>	5.22%	0.9478	4.91%	0.9509	4.83%	0.9517	4.80%	0.9520

\*Reductions are only calculated through model year 2030; therefore, the reductions used in 2035 are those calculated for model year 2030.

**Table 2**  
**Motorcycle Adjustment Factors for NOx and VOC**

<b>Year</b>	<b>NOx Reduction</b>	<b>Adjustment Factor</b>	<b>Exhaust VOC</b>	<b>Adjustment Factor</b>
<b>2011</b>	16.79%	0.8321	13.36%	0.8664
<b>2018</b>	45.34%	0.5466	43.94%	0.5606
<b>2025</b>	55.44%	0.445644	57.51%	0.4249
<b>2035</b>	56.99%	0.430098	59.71%	0.4029

\*Reductions are only calculated through model year 2030; therefore, the reductions used in 2035 are those calculated for model year 2030.