Baseline Inventory Summary for PR2301-Control of Emissions from

New or Redevelopment Projects

PR2301- Stakeholder Working Group Subcommittee Meeting

October 8, 2008

PR 2301 Background

- Measure is designed to reduce emissions related to new development and redevelopment projects
- □ Emission Reduction Commitment (t/d)

NOx	VOC	PM2.5
.8	.5	.5

Project Development Phases

□ Construction

- -Construction & Demolition PM Dust
- -Construction Equipment
- -On-Road Emissions
- -Architectural Coatings
- -Asphalt Paving
- -Re-entrained Paved Road Dust

Operation

- -On-Site Natural Gas Consumption
- -Consumer Products
- -On-Road Emissions
- -Architectural Coatings
- -Lawn & Garden Equipment

Inventory Methodology

Emission Growth Projections

- □ Follows 2007 AQMP Methodology
- Emissions due to growth is the difference between growth and control emissions and control-only emissions
- □ Identified between the years 2010 2014; and 2010 2023

- □ Construction Equipment- Based on an estimate of 14.6% of emission associated with Government funded roads and projects, 85% of growth emissions are attributable to PR2301
- □ **Asphalt Paving-** Upon exclusion of funded roads and projects, **57%** of growth emissions are attributable to PR2301

- Fuel Combustion- Includes service, commercial and residential space & water heating. 100% of growth emissions included for reduction by PR2301
- On-Road Mobile Sources- Includes trips from worker commutes, new residents, tenants or delivery trucks and excludes impacts from population increase not associated with new development. 50% of light & medium duty vehicle emissions and 40% of heavy duty are targeted for reduction.
- □ Re-Entrained Paved Road Dust- 50% of road mile growth, and therefore emissions growth, is targeted for reduction

- □ Construction & Demolition Dust- Since 4% of emissions are estimated from road construction, the remaining 96% are targeted for reduction by PR2301
- □ Transport Refrigeration Units- After excluding pass through trips, half of the remaining trips, 40%, is estimated to result from growth and will be targeted
- □ Consumer Products- Growth emissions correlate similarly with housing unit and population growth, thus 100% of growth emissions will be targeted

- □ Architectural Coatings- Growth emissions correlate primarily with housing units, thus 100% of emission growth will be targeted under PR2301
- □ Lawn and Garden Equipment- Growth emissions correlate primarily with housing units, thus 100% of emission growth will be targeted under PR2301

PR 2301 Baseline Emissions (t/d)

13 Source Categories	% Contribution to PR2301 (range)	2014 (Growth Emissions between 2010-2014)	2023 (Growth Emissions between 2010-2023)
	40-100	NOx- 49.6 VOC- 15.2	NOx- 29.8 VOC- 28.3
		PM2.5- 7.3	PM2.5- 8.8

Baseline Emissions (Cont.)

Emission reductions beyond what is assumed in the 2007 AQMP are potentially SIP creditable toward SIP obligations

Emission Reduction Target

2007 AQMP Commitment for 2023

	NOx (t/d)	VOC (t/d)	PM2.5 (t/d)
Emissions Inventory	29.8	28.3	8.8
SIP Commitment	0.8	0.5	0.5