

2016 Ozone Plan

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Presentation

- Background
- Plan Development
- Review Changes
- Questions/Discussion

Background – Plan Requirements

- **California Clean Air Act (1988)**
 - Attain the Ozone standard by the earliest practicable date
- **Triennial progress reports:**
 - 1991 (initial plan), 1994, 1998, 2001, 2004, 2007, 2010, 2013
- **Objectives:**
 - 1) Assess the effectiveness of our program
 - 2) Include strategies to obtain further emission reductions

Plan Development

Activity	Date	Action
Introduction and Draft Stationary Source Control Measures to CAC	March 2016	Review and discuss
Draft Chapters 1, 2, 3, and 5 to CAC	June 2016	Review and discuss
CAC to consider Final Draft 2016 Ozone Plan	August 2016	Recommend that District Board adopt plan
Public review period	30 days prior to adoption hearing	Issue public notice
District Board consideration of 2016 Ozone Plan	October 2016	Adopt Plan

Background - Plan Organization

- **Chapter 1:** Introduction
- **Chapter 2:** Air Quality
 - Attainment Status, Trends, Population Exposure
- **Chapter 3:** Emission Inventory
 - Stationary Sources, Area-wide Sources, Mobile Sources
 - Emission forecasts
- **Chapter 4:** Stationary Source Control Measures
 - Proposed strategies to help meet attainment goals
- **Chapter 5:** Transportation Control Measures
 - SBCAG strategies that help reduce pollution

Chapter 1, Introduction

Re-ordered and added summary table

(Table 1-1, Page 1-1)

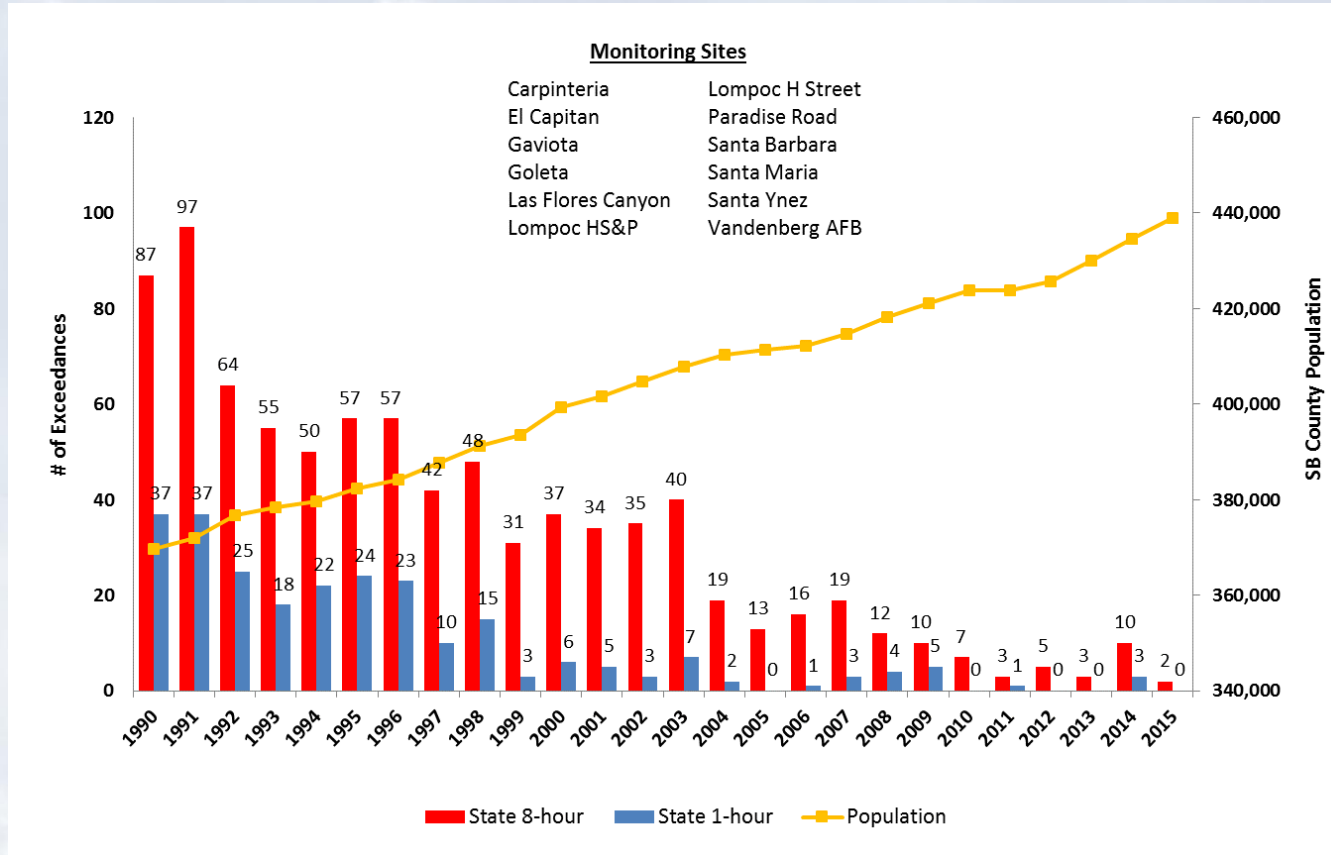
Ambient Air Quality Standard	Concentration	Year Adopted	Status for Santa Barbara County
State 1-Hour	0.09 ppm	1988	Nonattainment
State 8-Hour	0.070 ppm	2005	Nonattainment
Federal 8-Hour (old)	0.075 ppm	2008	Attainment
Federal 8-Hour (new)	0.070 ppm	2015	Undetermined

Chapter 2, Local Air Quality

- **Re-formatted Charts** (Fig. 2-1, 2-2, 2-4)
- **Showed exceedances and population change** (Fig. 2-3, Page 2-5)
- **Moved VMT chart to chapter 5**
(Fig. 2-4 is now Fig. 5-1)
- **Corrected “significant figures” in Table 2-1**
(Page 2-8)

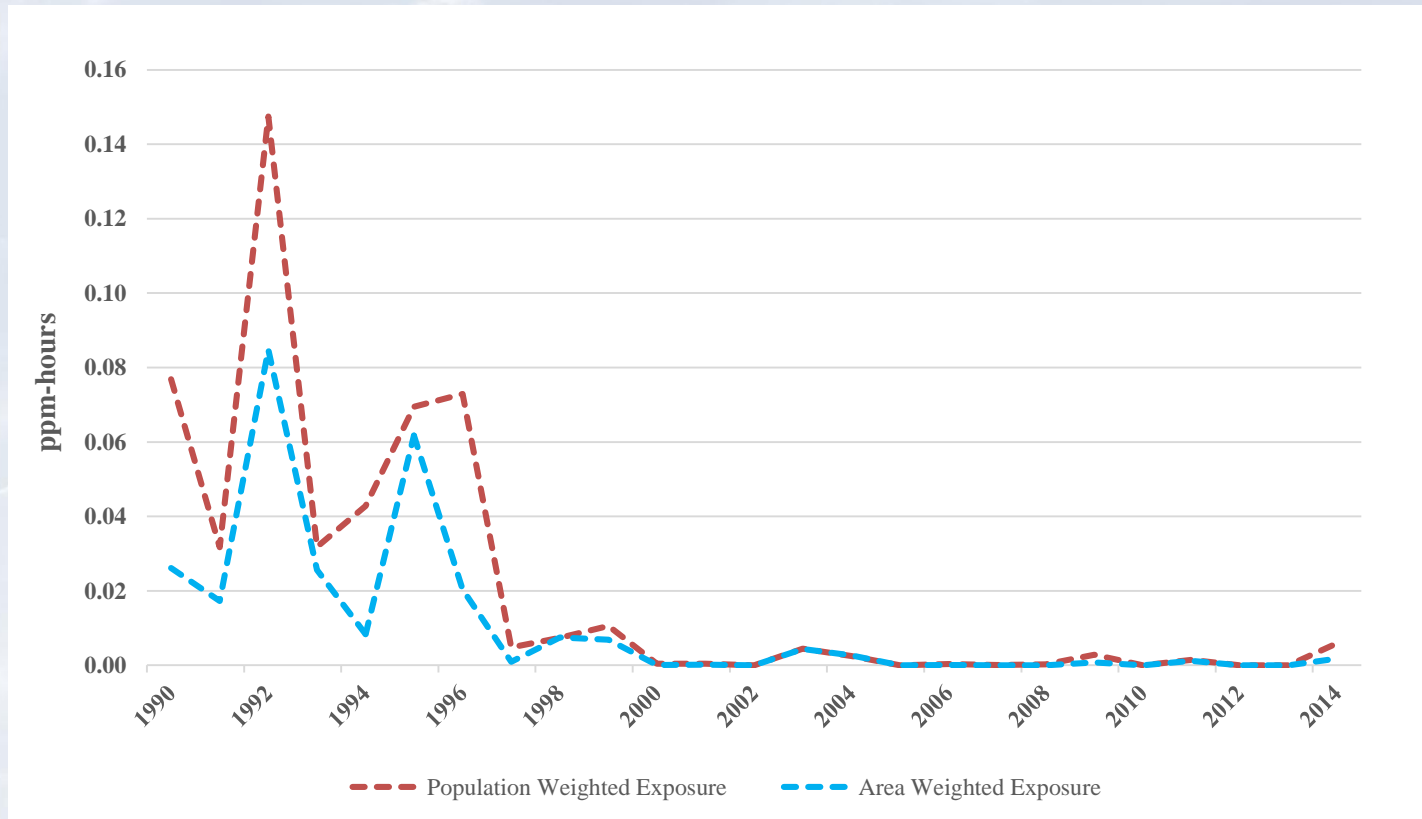
Chapter 2, Local Air Quality

POPULATION AND DAYS EXCEEDING STANDARD (FIG. 2-3, PAGE 2-5)



Chapter 2, Local Air Quality

POPULATION- AND AREA-WEIGHTED EXPOSURE (FIG. 2-4, PAGE 2-7)



Chapter 3, Emission Inventory

- Discussed base year in more detail (Page 3-2)
- Updated discussion of growth factors (Page 3-4)
- Expanded discussion of oil and gas growth factor (Pages 3-4 and 3-5)
- Updated inventory – most current ARB data using CEPAM v1.04 (Table 3-2 and 3-3, Figures 3-1, 3-3 and 3-4).

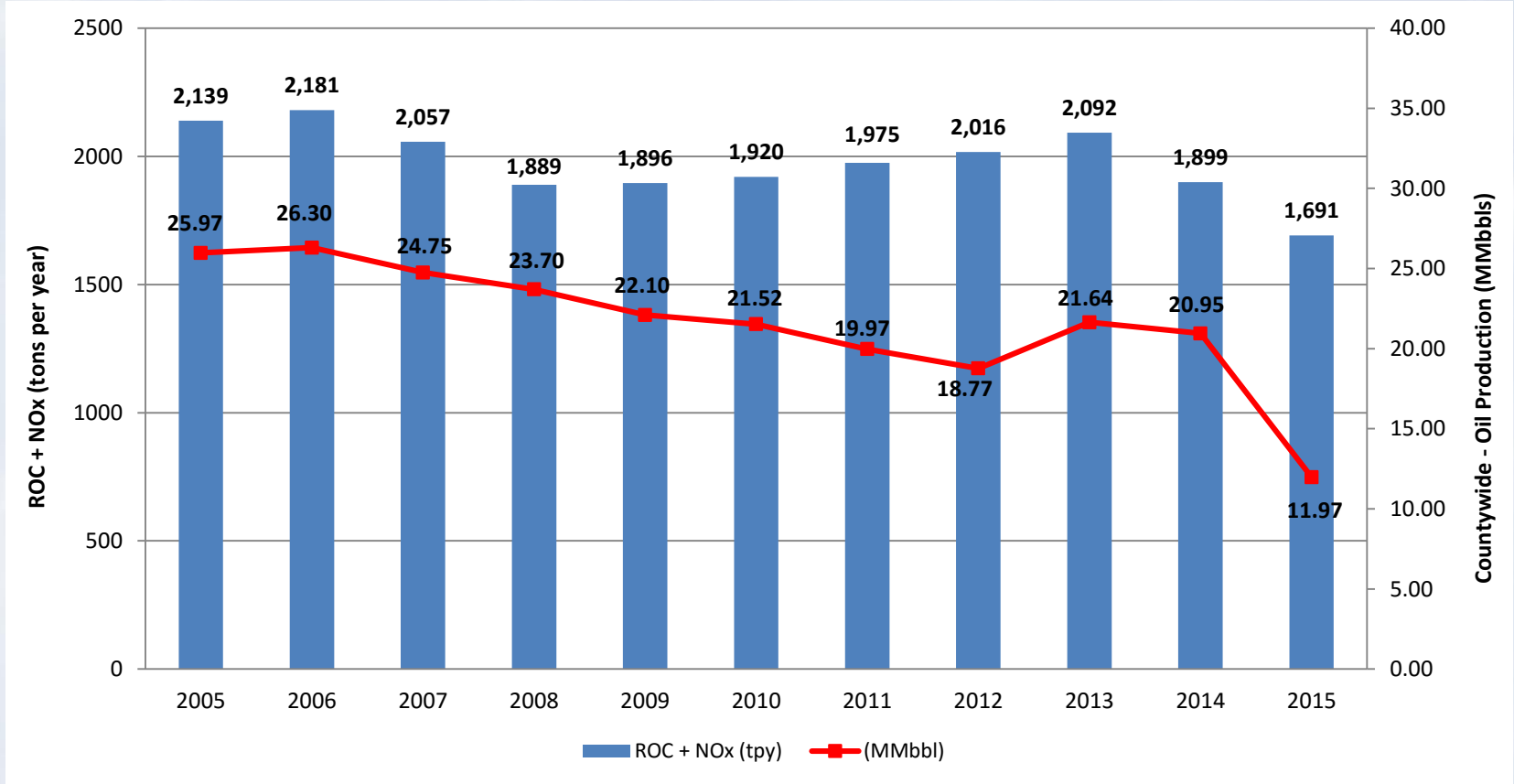
Chapter 3, Emission Inventory

ROC AND NOX EMISSION FORECASTS, TONS PER DAY (TABLE 3-2, PAGE 3-6)

Source Category	2012		2025		2035	
	ROC	NOx	ROC	NOx	ROC	NOx
Stationary Sources	11.51	5.35	11.90	5.15	13.59	5.25
Area-wide Sources	12.62	0.46	11.09	0.30	11.44	0.27
On-Road Vehicles	4.88	9.44	1.81	2.65	1.61	2.11
Other Mobile	3.22	6.83	2.18	4.51	1.93	3.83
Marine Shipping	2.13	49.50	4.14	39.36	6.09	36.24
ERCs	-	-	0.27	0.76	0.27	0.76
Total	34.37	71.58	32.33	52.72	35.93	48.45

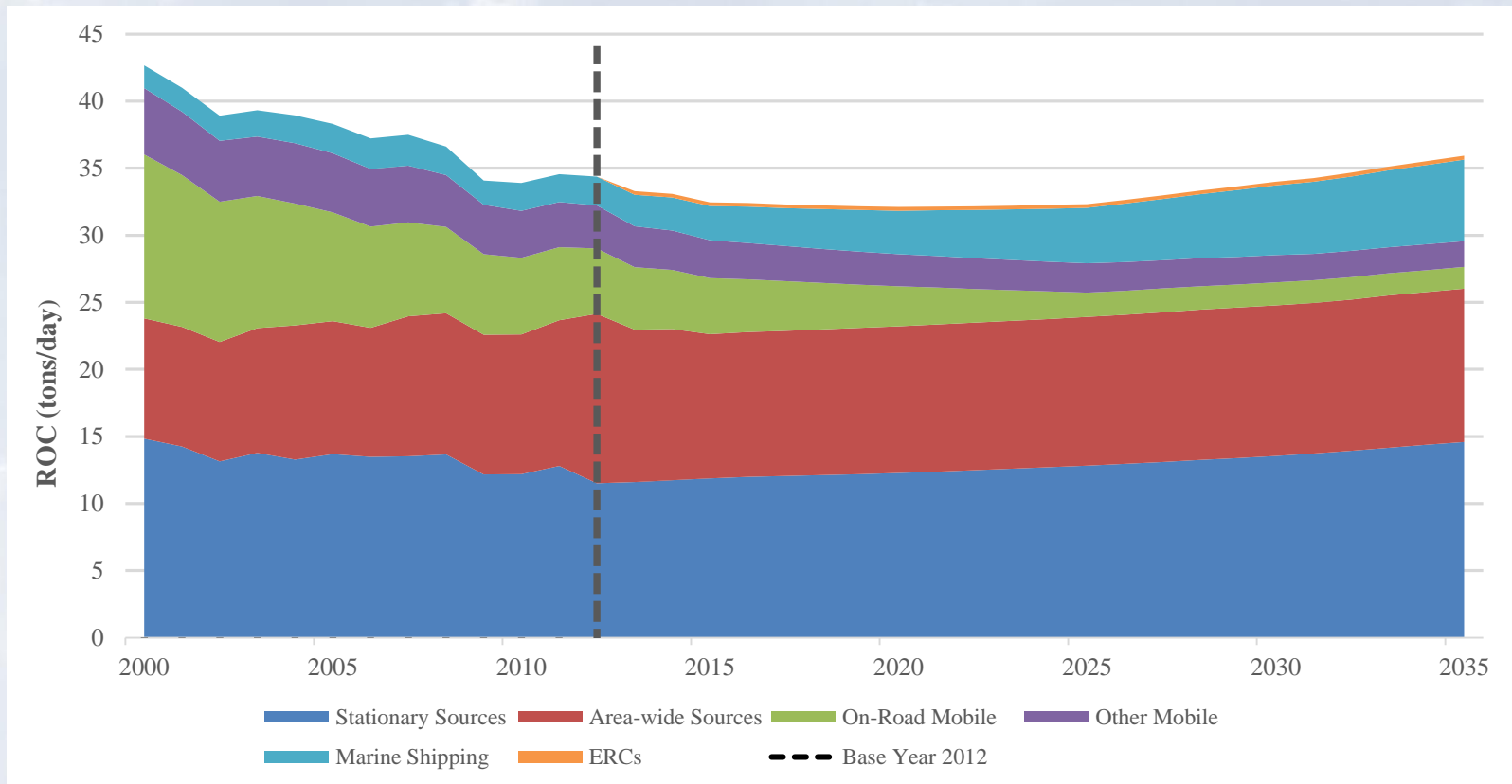
Chapter 3, Emission Inventory

SB COUNTY OIL PRODUCTION VS. OIL & GAS SECTOR EMISSIONS (FIG. 3-2, PG. 3-5)



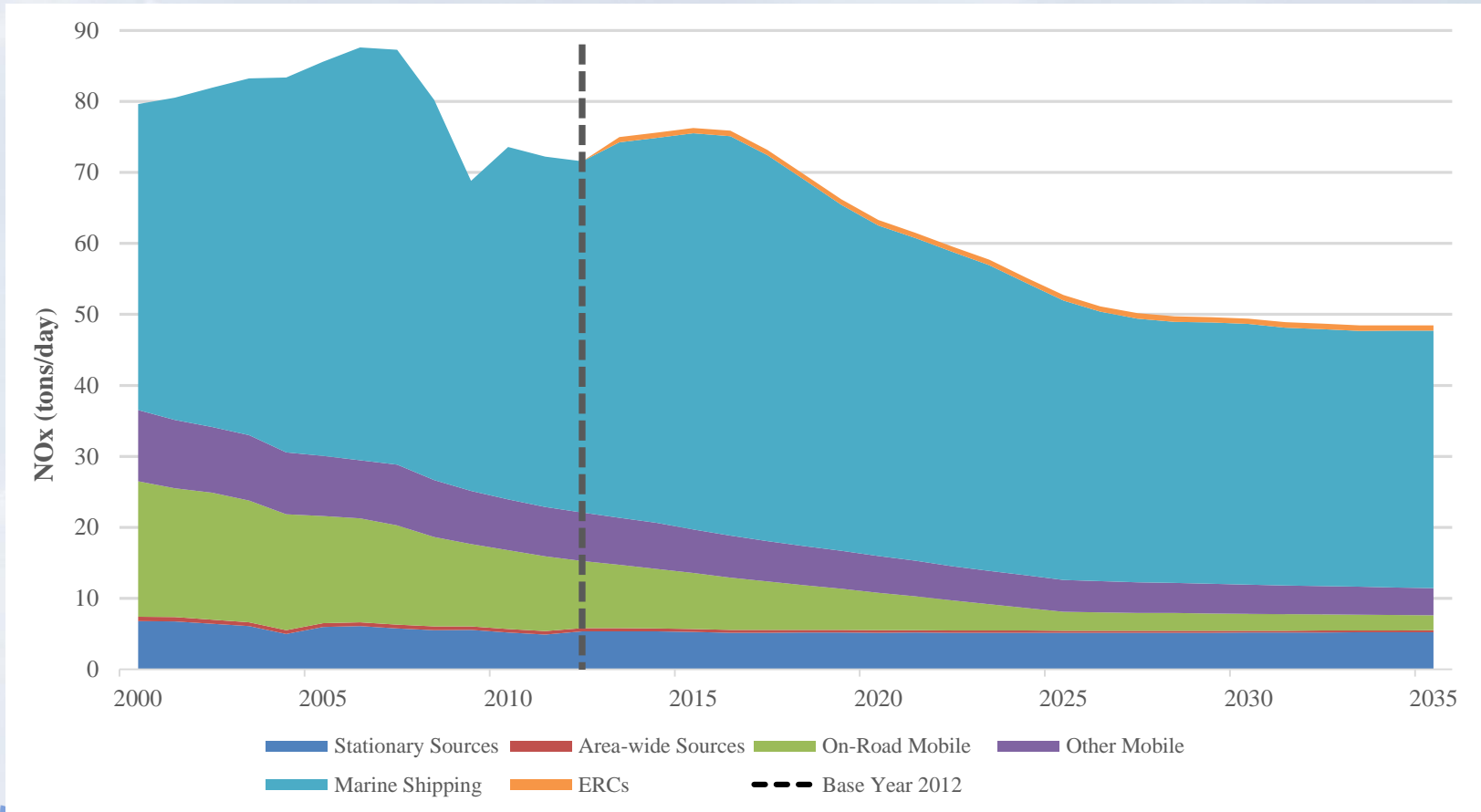
Chapter 3, Emission Inventory

ROC EMISSION TRENDS BY SOURCE CATEGORY (FIG. 3-3, PAGE 3-7)



Chapter 3, Emission Inventory

NOx EMISSION TRENDS BY SOURCE CATEGORY (FIG. 3-4, PAGE 3-8)



Chapter 4, Control Measures

- Revised Rule 360 adoption schedule
(Table 4-2, Page 4-5)
- Added discussion of potential effects of
Nonattainment-Transitional Status (Page 4-11)

Chapter 5, On-Road Emissions and Transportation Control Measures

- Moved population and VMT chart from chapter 2 (Fig. 5-1, Page 5-2)
- Clarified state requirements (Page 5-2)
- Fixed error in list of TCMs (Page 5-7; TCM T-20 was not adopted)
- Clarified action on existing TCMs (Page 5-13)
- Added detail on 2016 VSR trial (Page 5-14)
- Minor corrections/cleanup to several charts

Next Steps

Activity	Date	Action
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Questions/Discussion