

# Appendix D

## Vehicle Miles Traveled Emissions Offset Demonstration

*2013 Plan for the Revoked 1-Hour Ozone Standard*  
SJVUAPCD

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## ***APPENDIX D: VMT EMISSIONS OFFSET DEMONSTRATION***

### **D.1 INTRODUCTION**

The San Joaquin Valley Air Pollution Control District (District) has prepared this vehicle miles traveled (VMT) emissions offset demonstration for the 1-hour and 8-hour ozone National Ambient Air Quality Standards (NAAQS) as required by Section 182(d)(1)(A) of the federal Clean Air Act (CAA), which applies to areas classified as severe or extreme nonattainment of the NAAQS. Based on modeling and analysis prepared by the California Air Resources Board (ARB) the District prepared this demonstration in accordance with the U.S. Environmental Protection Agency's (EPA's) August 2012 guidance entitled *Implementing Clean Air Act Section 182(d)(1)(A): Transportation Control Measures and Transportation Control Strategies to Offset Growth in Emissions Due to Growth in Vehicle Miles Traveled*.<sup>1</sup>

This demonstration shows that both the *2013 Plan for the Revoked 1-Hour Ozone Standard* and the *2007 Ozone Plan* comply with CAA §182(d)(1)(A). Projected attainment year emissions of both volatile organic compounds (VOC) and oxides of nitrogen (NOx), accounting for controls and VMT growth, are less than hypothetical future-year emissions that do not account for new controls or VMT growth. Therefore, the identified transportation control strategies and measures are sufficient to offset the growth in emissions attributable to VMT growth.

### **D.2 BACKGROUND**

The EPA approved the District's *2004 Extreme Ozone Attainment Demonstration Plan (2004 1-Hour Ozone Plan)* and the *2007 Ozone Plan* (for the 1997 8-hour ozone NAAQS) March 8, 2010 and March 1, 2012, respectively. Each plan contained VMT emissions offset demonstrations consistent with EPA's interpretation of CAA §182(d)(1)(A) at the time of submission and approval.

Subsequent to those approvals, a decision of the Ninth Circuit Court of Appeals in *Association of Irrigated Residents v. EPA* (9<sup>th</sup> Cir. 2011), reprinted as amended on January 27, 2012, 632 F.3d 584 [AIR] rejected EPA's interpretation of the CAA, which had provided the basis for EPA's approval of District plans with respect to VMT offset demonstrations. With the AIR decision, the Court determined that the CAA requires additional transportation control strategies and measures whenever vehicle emissions are projected to be higher than would have been had VMT not grown, even if aggregate vehicle emissions are decreasing. EPA issued further guidance to address the Court's decision in August 2012, *Implementing Clean Air Act Section 182(d)(1)(A): Transportation Control Measures and Transportation Control Strategies to Offset Growth in Emissions Due to Growth in Vehicle Miles Traveled*.

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<sup>1</sup> U.S. Environmental Protection Agency [EPA]: Office of Transportation and Air Quality. (2012, August). *Implementing Clean Air Act Section 182(d)(1)(A): Transportation Control Measures and Transportation Control Strategies to Offset Growth in Emissions Due to Growth in Vehicle Miles Traveled* (EPA-420-B-12-053). Retrieved from <http://www.epa.gov/otaq/stateresources/policy/general/420b12053.pdf>

In addition to the Court's ruling in the *AIR* case, a previous 9<sup>th</sup> Circuit Court of Appeals decision (*Sierra Club v EPA*, 671 F.3d 955 (9<sup>th</sup> Cir. 2012)) found that EPA's action in approving the *2004 1-Hour Ozone Plan* was arbitrary and capricious under the Administrative Procedure Act because it did not take into account new emissions inventory data that California had submitted subsequent to submittal of the plan. The Court remanded EPA's action in its entirety.

To address issues pertinent to both court cases, EPA, on November 26, 2012, withdrew its March 8, 2010 final action approving state implementation plan (SIP) revisions submitted by the California Air Resources Board (ARB) under the CAA to provide for attainment of the 1-hour ozone NAAQS in the San Joaquin Valley extreme ozone nonattainment area (77 FR 182, 70376–70380). In the same March 8, 2010 final action, EPA also withdrew a portion of the March 1, 2012 final rule approving the *2007 Ozone Plan*. The first part of EPA's action requires re-submittal of a 1-hour ozone plan—the preparation of the *2013 Plan for the Revoked 1-Hour Ozone Standard*, including the VMT emissions offset demonstration for the 1-hour ozone NAAQS, fulfills this requirement. The second part of EPA's action requires re-submittal of the VMT emissions offset demonstration consistent with EPA's 2012 guidance document. This appendix also fulfills the VMT offset demonstration requirement pertinent to the *2007 Ozone Plan*.

### **D.3 EPA GUIDANCE ON VMT OFFSET REQUIREMENT**

In its 2012 guidance, EPA indicated that technology improvements such as vehicle technology improvements, motor vehicle fuels, and other control strategies that are transportation related could be used to offset emissions increases from VMT. The guidance also set forth a methodology for demonstrating achievement of the VMT offset requirement. The projected attainment year emissions, assuming no new control measures and no VMT growth, are to be compared with projected actual attainment year emissions that include new control measures and VMT growth. If the latter number is smaller than the former, then no additional transportation control measures or transportation control strategies would be required.

The guidance recommends that the base year used in the VMT offset demonstration be the base year used in the attainment demonstration for the ozone NAAQS. The District believes that in all cases the proper base year is 1990, since Section 182(d)(1)(A) was part of the 1990 CAA amendments and clearly contemplated the use of 1990 as the base year.

### **D.4 TRANSPORTATION CONTROL STRATEGIES AND TRANSPORTATION CONTROL MEASURES**

By listing them separately, CAA §182(d)(1)(A) differentiates between transportation control strategies (TCSs) and transportation control measures (TCMs), both of which can be used as options to offset increased emissions from growth in VMT per the provisions of CAA §182(d)(1)(A) and EPA's 2012 guidance. Since 1990, when this requirement was established, California has adopted a substantial number of

enforceable TCSs—more than enough to meet the requirement to offset increased emissions from VMT growth. Attachment A to this appendix is a list of the State’s mobile source TCSs adopted by ARB since 1990. Attachment B to this appendix details the commitments submitted to EPA by the metropolitan planning organizations (MPOs) within the San Joaquin Valley to meet the *2002 Severe Area Ozone Plan* reasonably available control measure (RACM) requirement.

## D.5 METHODOLOGY

The following calculations are based on EPA’s 2012 guidance. As discussed above, this demonstration includes two sets of calculations; both are based on a 1990 base year. For the 1-hour ozone NAAQS demonstration, 1990 serves as the base year and 2017 is the projected attainment year. Similarly, the second set of calculations uses 1990 as the base year, consistent with EPA guidance, but extends the attainment year out to 2023, consistent with the *2007 Ozone Plan*.

### D.5.1 Analysis Using 1990 as the Base Year for 1-Hour Ozone

#### **Step 1. Provide the emissions levels for the 1990 base year.**

Table D-1 shows the VOC and NO<sub>x</sub> emissions for the calendar year 1990 from the EMFAC2011 model.<sup>2</sup>

**Table D-1 Base year (1990) VMT and Emissions**

Description	VMT (miles/day)	VOC (tons/day)	NO <sub>x</sub> (tons/day)
1990 Vehicle Miles Travelled and On-Road Emissions	52,198,974	214	285

#### **Step 2. Calculate three emissions levels in the 2017 attainment year.**

- (1) Calculate emissions levels with the motor vehicle control program frozen at 1990 levels and with projected VMT in the attainment year. This represents what the emissions in the attainment year would have been if TCSs and TCMs had not been implemented after 1990.
- (2) Calculate emissions levels with the motor vehicle control program frozen at 1990 levels and assuming VMT do not increase from 1990 levels.
- (3) Calculate an emissions level that represents emissions with full implementation of all TCSs and TCMs since 1990, which represents the projected future year baseline emissions inventory in the attainment year.

<sup>2</sup> EMFAC is California’s model for estimating emissions from on-road vehicles operating in California; EMFAC2011 is the most recent update. All model runs were for the San Joaquin Valley Air Basin using average summer emissions.

**Calculation 1. Calculate the emissions in the attainment year assuming no new measures since the base year with growth in VMT.**

To perform this calculation, ARB staff identified the on-road motor vehicle control programs adopted since 1990 and adjusted the EMFAC2011 output to reflect the VOC and NOx emissions levels in 2017 without the benefits of the post-1990 control programs. The projected VOC and NOx emissions are 216 and 482 tons per day, respectively.

**Calculation 2. Calculate the emissions with no growth in VMT.**

EMFAC2011 allows the user to input different VMT values. As such, ARB ran EMFAC2011 for calendar year 2017 with the 1990 VMT level of 52,198,974 miles per day. The VOC and NOx emissions associated with the 1990 VMT level are 169 and 232 tons per day, respectively.

**Calculation 3. Calculate emission reductions with full implementation of TCSs and TCMs.**

ARB calculated the VOC and NOx emission levels for 2017 assuming the benefits of the post-1990 motor vehicle control program and the projected VMT levels in 2017 are calculated using EMFAC2011. The projected VOC and NOx emissions levels are 37 and 116 tons per day, respectively.

VOC and NOx emissions for the three sets of calculations described above are provided in Table D-2.

**Table D-2 VOC and NOx Emissions Calculations for Attainment Year (2017)**

Calculation Number	Description	VMT* (miles/day)	VOC (tons/day)	NOx (tons/day)
1	Emissions with motor vehicle control program frozen at 1990 levels (VMT at 2017 projected levels)	114,919,482	216	482
2	Emissions with motor vehicle control program frozen at 1990 levels (VMT at 1990 levels)	52,198,974	169	232
3	Emissions with full motor vehicle control program in place (VMT at 2017 projected levels)	114,919,482	37	116

\*VMT based on 2013 FTIP activity

As provided in the 2012 EPA guidance, to determine compliance with CAA §182(d)(1)(A), the Calculation 3 emissions levels should be less than the Calculation 2 emissions levels:

VOC: 37 < 169 tons per day

NOx: 116 < 232 tons per day

### D.5.2 Analysis Using 1990 as the Base Year for 8-Hour Ozone

As mentioned above, this alternative analysis is for the federal 8-hour NAAQS and the attainment year 2023.

**Step 1. Provide the emissions levels for the 1990 base year.**

Table D-3 shows the VOC and NO<sub>x</sub> emissions for the calendar year 1990 from the EMFAC2011 model.

**Table D-3 Base Year (1990) VMT and Emissions**

Description	VMT (miles/day)	VOC (tons/day)	NO <sub>x</sub> (tons/day)
1990 Vehicle Miles Travelled and On-Road Emissions	52,198,974	214	285

**Step 2. Calculate three emissions levels in the 2023 attainment year.**

- (1) Calculate emissions levels with the motor vehicle control program frozen at 1990 levels and with projected VMT in the attainment year. This represents what the emissions in the attainment year would have been if TCSs and TCMs had not been implemented after 1990.
- (2) Calculate emissions levels with the motor vehicle control program frozen at 1990 levels and assuming VMT do not increase from 1990 levels.
- (3) Calculate an emissions level that represents emissions with full implementation of all TCSs and TCMs since 1990, which represents the projected future year baseline emissions inventory in the attainment year.

**Calculation 1. Calculate the emissions in the attainment year assuming not new measures since the base year with growth in VMT.**

To perform this calculation, ARB staff identified the on-road motor vehicle control programs adopted since 1990 and adjusted the EMFAC2011 output to reflect the VOC and NO<sub>x</sub> emissions levels in 2023 without the benefits of the post-1990 control programs. The projected VOC and NO<sub>x</sub> emissions are 221 and 535 tons per day, respectively.

**Calculation 2. Calculate the emissions with no growth in VMT.**

EMFAC2011 allows the user to input different VMT values. As such, ARB ran EMFAC2011 for calendar year 2023 with the 1990 VMT level of 52,198,974 miles per day. The VOC and NO<sub>x</sub> emissions associated with the 1990 VMT level are 178 and 228 tons per day, respectively.

**Calculation 3. Calculate emission reductions with full implementation of TCSs and TCMs.**

ARB calculated the VOC and NO<sub>x</sub> emission levels for 2023 assuming the benefits of the post-1990 motor vehicle control program and the projected VMT levels in 2023 are

calculated using EMFAC2011. The projected VOC and NOx emissions levels are 29 and 66 tons per day, respectively.

VOC and NOx emissions for the three sets of calculations described above are provided in the Table D-4.

**Table D-4 VOC and NOx Emissions Calculations for Attainment Year (2023)**

Calculation Number	Description	VMT (miles/day)	VOC (tons/day)	NOx (tons/day)
1	Emissions with motor vehicle control program frozen at 1990 levels (VMT at 2023 projected levels)	130,172,967	221	535
2	Emissions with motor vehicle control program frozen at 1990 levels (VMT at 1990 levels)	52,198,974	178	228
3	Emissions with full motor vehicle control program in place (VMT at 2023 projected levels)	130,172,967	29	66

*\*VMT based on 2013 FTIP activity*

As provided in the 2012 EPA guidance, to determine compliance with CAA §182(d)(1)(A), Calculation 3 emissions levels should be less than the Calculation 2 emissions levels:

VOC: 29 < 178 tons per day

NOx: 66 < 228 tons per day

## D.6 SUMMARY

The previous sections provide an analysis to demonstrate compliance with CAA §182(d)(1)(A). To further illustrate the demonstration, Figures 1 and 2 graphically display the emissions benefits of the motor vehicle control programs in offsetting VOC and NOx emissions resulting from VMT increases in the San Joaquin Valley Air Basin. The left-most bar (in purple) in each figure shows the emissions in the 1990 base year. The set of three bars on the right in each figure show the emission levels in 2017 if there were no further motor vehicle controls after 1990 and with projected VMT increases (red bar), the emissions if VMT does not increase from 1990 levels and there are no TCSs or TCMs after 1990 (green bar), and the emission levels with the post-1990 motor vehicle control program in place (blue bar). Based on the 2012 EPA guidance, if the blue bar is lower than the green bar, then the identified TCSs and TCMs are sufficient to offset the growth in emissions.



Figure D-1 VOC Emissions Using San Joaquin Valley “2013 FTIP” VMT

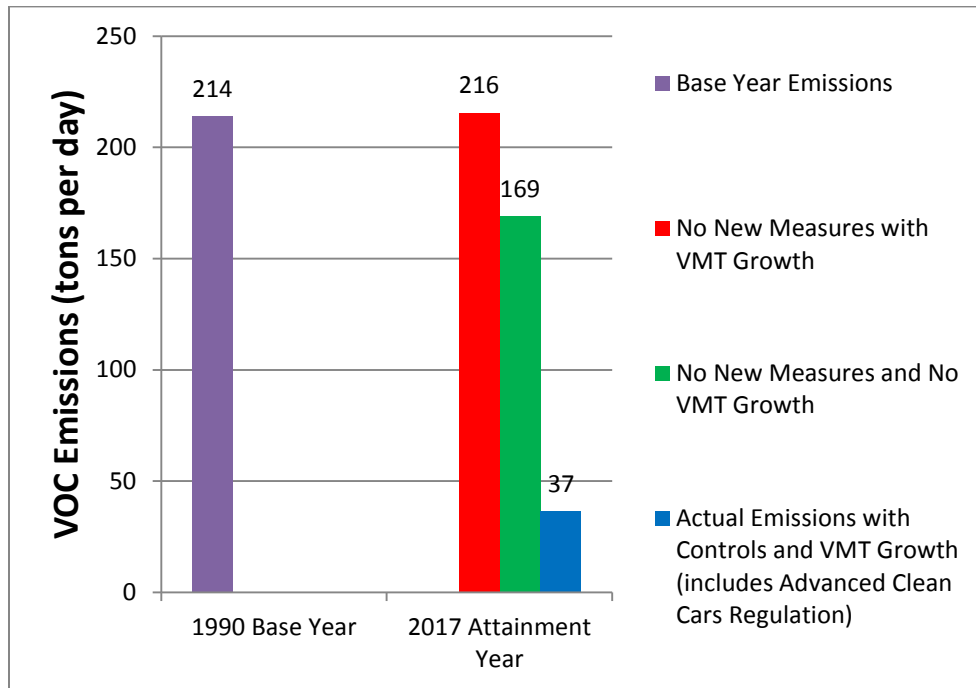
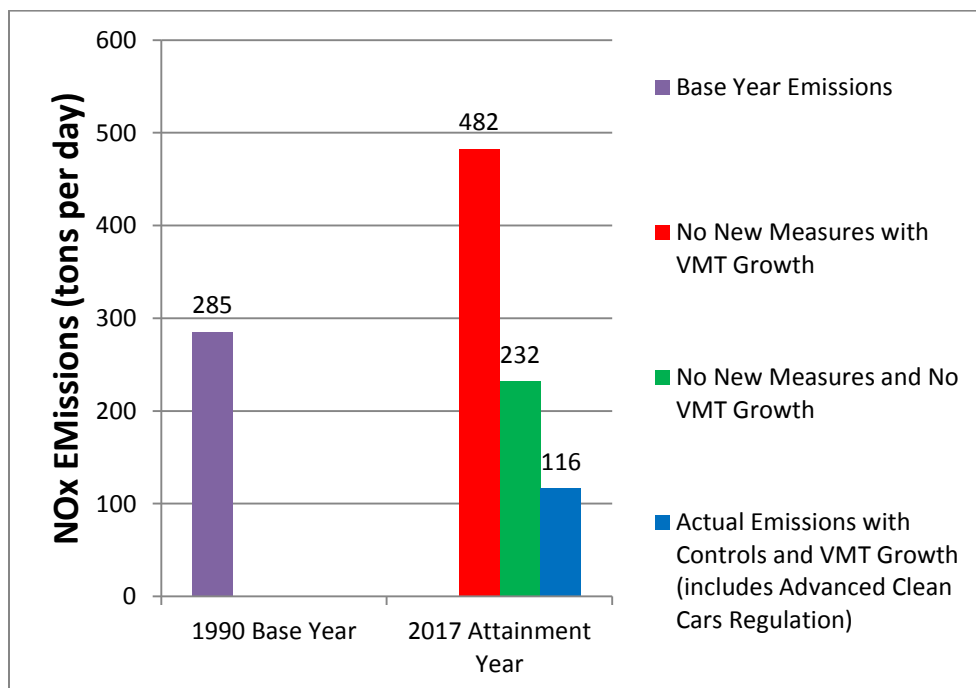
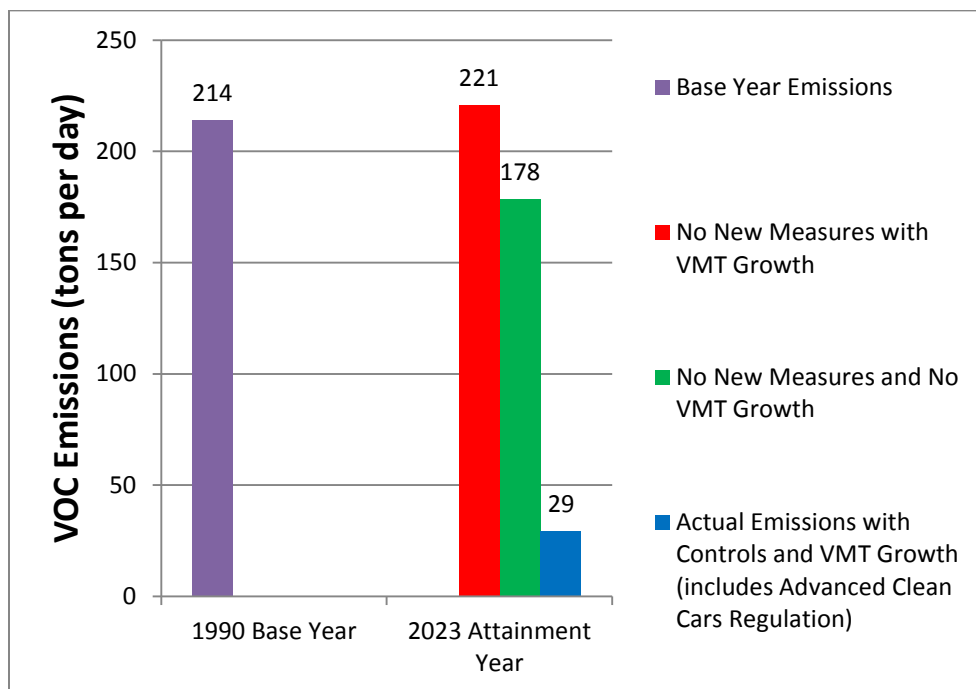


Figure D-2 NOx Emissions Using San Joaquin Valley “2013 FTIP” VMT

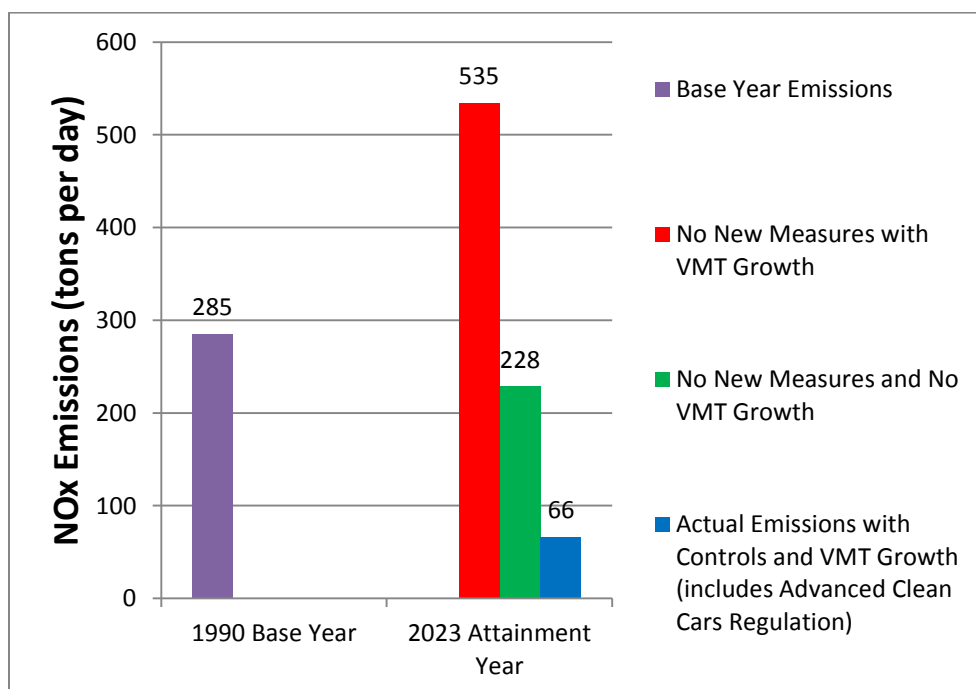


Figures 3 and 4 illustrate the results of the calculations for VOC and NOx, respectively, using 1990 as the base year. As with the first set of analyses, the blue bar is lower than the green bar, thus the identified TCSs and TCMs are sufficient to offset growth in emissions.

**Figure D-3 VOC Emissions Using San Joaquin “2013 FTIP” VMT**



**Figure D-4 NOx Emissions Using San Joaquin “2013 FTIP” VMT**



## Attachment A

**Table D-5 State of California Motor Vehicle Control Program (1990-Present)  
Transportation Control Strategies Adopted by the California Air Resources  
Board since 1990**

Measure	Hearing Date	Category
Emission Control System Warranty. T 13, CCR, 2035-2041, 1977	12/14/89	On-road
Certification Procedure for Aftermarket Parts. VC 27156 & 38391	02/08/90	On-road
Emission Standards for Medium Duty Vehicles. T 13, CCR, 1900, 1956.8, 1960.1, 1968.1, 2061, 2112, 2139	06/14/90	On-road
Wintertime Limits for Sulfur in Diesel Fuel. T 13, CCR, 2255	06/21/90	Fuels
Evaporative Emission Standards. T 13, CCR, 1976	08/09/90	On-road
California Reformulated Gasoline (CaRFG), Phase I. T 13, CCR, 2251.5	09/27/90	Fuels
Low Emission Vehicles and Clean Fuels. T 13, CCR, 1900, 1904, 1956.8, 1960.1, 1960.1.5, 1960.5 and 2111, 2112, 2125, and 2139, 2061.	09/28/90	On-road
Heavy Duty Diesel Smoke Emission Testing. T 13, CCR, 2180-2187	11/08/90	On-road
Limit on Aromatic Content of Diesel Fuel. T 13, CCR, 2256	12/13/90	Fuels
Onboard Diagnostics for Light-Duty Trucks and Light & Medium-Duty Motor Vehicles. T 13, CCR, 1977, 1968.1	09/12/91	On-road
Onboard Diagnostic, Phase II. T 13, CCR, 1968.1, 1977	11/12/91	On-road
Low Emission Vehicles amendments revising reactivity adjustment factor (RAF) provisions and adopting a RAF for M85 transitional low emission vehicles. T 13, CCR, 1960.1	11/14/91	On-road
California Reformulated Gasoline, Phase II. T 13, CCR, 2250, 2255.1, 2252, 2260 - 2272, 2295	11/21/91	Fuels
Wintertime Gasoline Program. T 13, CCR, 2258, 2298, 2251.5, 2296	11/21/91	Fuels
Specifications for Alternative Motor Vehicle Fuel. T 13, & 26, CCR, 2290, 2291, 2292.1, 2292.2, 2292.3, 2292.5, 2292.6, 2292.7, 1960.1(k), 1956.8(b), 1956.8(d)	12/12/91	Fuels
Specifications for Alternative Motor Vehicle Fuels. T 13, & 26, CCR, 2290-2292.7, 1960.1(k), 1956.8(b), 1956.8(d)	03/12/92	On-road
Standards and Test Procedures for Alternative Fuel Retrofit Systems. T 13, CCR, 2030, 2031	05/14/92	On-road
Phase 2 RFG certification fuel specifications. T 13, CCR, 1960.1, 1956.8(d)	08/13/92	On-road
Substitute Fuel or Clean Fuel Incorporated Test Procedures. T 13, CCR, 1960.1(k), 2317	11/12/92	On-road
Smoke Self Inspection Program for Heavy Duty Diesel & Gasoline Engines. T 13, CCR, 21902194, 2180-2187, 1956.8(b)	12/10/92	On-road

Measure	Hearing Date	Category
Certification Requirements for Low Emission Passenger Cars, Light-Duty Trucks & Medium Duty Vehicles. T 13, CCR, 1960.1, 1976, 2061, 1900	01/14/93	On-road
Urban Transit Buses. T 13, CCR, 1956.8, 1965, 2112	06/10/93	On-road
Onboard Diagnostic, Phase II. T 13, CCR, 1968.1	07/09/93	On-road
Wintertime Oxygenate Program. T 13, CCR, 2258, 2251.5, 2263(b), 2267, 2298, 2259, 2283, 2293.5	09/09/93	Fuels
Diesel Fuel Regulations -Emergency. T 13, CCR, 2281(h), 2282(1)	10/15/93	Fuels
Evaporative Emission Standards and Test Procedures. T 13, CCR, 1976	02/10/94	On-road
Predictive Model for Phase II CaRFG. T 13, CCR, 2261, 2262-2270	06/09/94	Fuels
Small Refiner Diesel. T 13, CCR, 2282(e)(1)	07/24/94	Fuels
Diesel Fuel Certification. T 13, CCR, 1956.8(b)&(d), 1960.1(k), 2292.6	09/22/94	Fuels
Self-Inspection Program for Heavy Duty Diesel & Gasoline Engines. T 13, CCR, 2190-2194, 21802187, 1956.8(b)	11/09/94	On-road
Onboard Diagnostics, Phase II. T 13, CCR, 1963.1, & Certification Procedures	12/08/94	On-road
Periodic Smoke Inspection Program. T 13, CCR, 2190	12/08/94	On-road
Specification for Alternative Motor Vehicle Fuels (M100). T 13 CCR, 2292.1	12/08/94	Fuels
Heavy Duty Vehicle Exhaust Emission Standards. T 13, CCR, 1956.8 and incorporate test procedures.	06/29/95	On-road
Onboard Refueling Vapor Recovery Standards. T 13, CCR, 1976, 1978 and incorporate test procedures	06/29/95	On-road
Test Method for Oxygen in Gasoline. T 13, CCR, 2251.5(c), 2258(c), 2263(b)	06/29/95	Fuels
Retrofit Emission Standards. T 13, CCR, 1956.9, 2030, 2031, and incorporate test procedures	07/27/95	On-road
Low Emission Vehicle Standards 3 (LEV 3). T 13, CCR, 1956.8, 1960.1, 1965, 2101, 2061, 2062, and incorporate test procedures	09/28/95	On-road
Test Methods for CaRFG 13, CCR, 2263(b)	10/26/95	Fuels
Required Additives in Gasoline (Deposit Control Additives). T 13, CCR, 2257 and incorporates testing procedures.	11/16/95	Fuels
CaRFG Housekeeping & CARBOB. T 13, CCR, 2263.7, 2266.5, 2260, 2262.5, 2264, 2265, 2272	12/14/95	Fuels
Exemption of Military Tactical Vehicles. T 13, CCR, 1905, 2400, 2420	12/14/95	On Road/Off Road
CaRFG Variance Requirements. T 13, CCR, 2271 (Emergency)	01/25/96	Fuels
Postpone Zero Emission Vehicle Requirements. T 13, CCR, 1900, 1960.1, 1976	03/28/96	On-road

Measure	Hearing Date	Category
Regulation Improvements and Repeals (fuel additives). T 13, CCR, 2201, 2202	05/30/96	Fuels
Diesel Fuel Certification Test Methods . T 13, CCR, 1956.8(b), 1960.1(k), 2281(c), 2282(b), (c) and (g)	10/24/96	Fuels
Diesel Fuel Test Methods. T 13, CCR, 1956.8(b), 1960.1(k), 2281(c), 2282(b), (c) and (g)	10/24/96	Fuels
Onboard Diagnostics, Phase II, Technical Status. T 13, CCR, 1968.1, 2030, 2031	12/12/96	On-road
Liquefied Petroleum Gas Propane Limit Specification Delay. T 13, CCR, 2292.6	03/27/97	Fuels
Postpone Enhanced Evaporative Emission Requirements for Ultra-Small Volume Vehicle Manufacturers. T 13, CCR, 1976 and incorporate test procedures	05/22/97	On-road
Off-Cycle Emissions Supplemental Federal Test Procedures (SFTPs). T 13, CCR, 1960.1, 2101 and incorporate test procedures	07/24/97	On-road
Heavy Duty Vehicle Smoke Inspection Program/Periodic Smoke Inspection Program. T 13, CCR, 2180-2188 and 2190-2194	12/11/97	On-road
Heavy Duty Vehicle Regulations: 2004 Standards. T 13, CCR, 1956.8, 1965, 2036, 2112 and test procedures	04/23/98	On-road
Cleaner Burning Gasoline Model Flexibility. T 13, CCR, Sections 2260, 2262.1, 2262.3, 2262.4, 2262.5, 2262.6, 2262.7 and 2265	08/27/98	Fuels
Gasoline Vapor Recovery Systems. T 17, CCR, 94010-94015 and 94150, 94156, 94157, 94158, 94159, 94160, 94162	08/27/98	Vapor Recovery
Gasoline Deposit Control Additive Regulation. T 13, CCR, 2257, and incorporating test procedures	09/24/98	Fuels
Low Emission Vehicles Standards (LEV 2) and Compliance Assurance Program (CAP 2000). T 13, CCR, 1961 & 1962 (both new); 1900, 1960.1, 1965, 1968.1, 1976, 1978, 2037, 2038, 2062, 2101, 2106, 2107, 2110, 2112, 2114, 2119, 2130, 2137-2140, 2143-2148	11/05/98	On-road
Exhaust Standards for (On-Road) Motorcycles. T 13, CCR, 1958	12/10/98	On-road
Voluntary Accelerated Light Duty Vehicle Retirement Regulations. T 13, CCR, 2600-2610	12/10/98	On-road
Cleaner Burning Gasoline (Increasing the Oxygen Content). T 13, CCR, sections 2262.5(b) and 2265(a)(2)	12/11/98	Fuels
Specifications for Liquid Petroleum Gas Used as a Motor Vehicle Fuel. T 13, CCR, 2292.6	12/11/98	Fuels
Cleaner Burning Gasoline, Oxygen Requirement for Wintertime In Lake Tahoe Area/Gas Pump Labeling for MTBE. T 13, CCR, 2262.5, and 2273	06/24/99	Fuels
Clean Fuels Regulation Requirements. T 13, CCR, sections 2300-2317, and 2303.5, 2311.5	07/22/99	On-road

Measure	Hearing Date	Category
CaRFG Phase 3 Amendments (Phase out of MTBE, standards, predictive model). T 13, CCR, 2260, 2261, 2262.1, 2262.5, 2263, 2264, 2264.2, 2265, 2266 etc...	12/09/99	Fuels
Transit Bus Standards. T 13, CCR, 1956.1, 1956.2, 1956.3, 1956.4, 1956.8, 1965	02/24/00	On-road
CaRFG Phase 3 Follow-up Amendments. T 13, CCR, sections 2260, 2261, 2262.3, 2262.5, 2263, 2264, 2265, 2266, 2266.5, 2270, 2272, 2273, 2282, 2296, 2297, 2262.9 and incorporated test procedures	11/16/00	Fuels
CaRFG Phase 3 Test Methods. T 13, CCR, sections 2263(b)	11/16/00	Fuels
Heavy Duty Diesel Engines "Not-to-Exceed (NTE)" Test Procedures. T 13 CCR, 1956.8, 2065	12/07/00	On-road
Light-and Medium Duty Low Emission Vehicle Alignment with Federal Standards. Exhaust Emission Standards for Heavy Duty Gas Engines. T 13, CCR, 1956.8 & 1961	12/07/00	On-road
Zero Emission Vehicle Regulation Update. T 13, CCR, 1900, 1960.1(k), 1961, 1962 & incorporated Test Procedure	01/25/01	On-road
Zero Emission Vehicle Infrastructure and Standardization of Electric Vehicle Charging Equipment. T 13, CCR, 1900(b), 1962(b) 1962.1	06/28/01	On-road
Heavy Duty Diesel Engine Standards for 2007 and Later. T 13, CCR, 1956.8 and incorporated test procedures	10/25/01	On-road
Low Emission Vehicle Regulations. T 13, CCR, 1960.1, 1960.5, 1961, 1962 and incorporate test procedures and guidelines	11/15/01	On-road
California Motor Vehicle Service Information Rule. T 13&17, CCR, 1969 & 60060.1 -60060.7	12/13/01	On-road
Voluntary Accelerated Light Duty Vehicle Retirement Regulations. T 13, CCR, 2601-2605, 2606 & appendices C & D, and 2607-2610	02/21/02	On-road
On-Board Diagnostic II Review Amendments. T 13, CCR, 1968.1, 1968.2, 1968.5	04/25/02	On-road
Diesel Retrofit Verification Procedure, Warranty and In-Use Compliance Requirements. T 13, CCR, 2700-2710	05/16/02	On-road
Revision to Transit Bus Regulations Amendments. T 13, CCR, 1956.1, 1956.2, 1956.4, 1956.8, and 2112, & documents incorporated by reference	10/24/02	On-road
Airborne Toxic Control Measure for Diesel Particulate from School Bus Idling. T13, CCR, 2480	12/12/02	On-road
Low Emission Vehicles II. Align Heavy Duty Gas Engine Standards with Federal Standards; minor administrative changes. T 13, CCR, 1961, 1965, 1956.8, 1956.1, 1978, 2065 and documents incorporated by reference	12/12/02	On-road
Zero Emission Vehicle Amendments for 2003. T 13, CCR, 1960.1(k), 1961(a) and (d), 1900, 1962, and documents incorporated by reference	03/25/03	On-road

Measure	Hearing Date	Category
Solid Waste Collection Vehicles. T 13, CCR, 2020, 2021, 2021.1, 2021.2	09/24/03	On-road
Airborne Toxic Control Measure for Diesel Particulate for Transport Refrigeration Units. T 13, CCR, 2022 & 2477	12/11/03	On-road
Diesel Retrofit Verification Procedure, Warranty and In-Use Compliance Requirements (Amendments). T 13, CCR, 2701-2707 & 2709	12/11/03	On-road
CA Motor Vehicle Service Information Rule. T 13, CCR, 1969	01/22/04	On-road
Heavy Duty Diesel Engine-Chip Reflash. T 13, CCR, 2011, 2180.1, 2181, 2184, 2185, 2186, 2192, and 2194	03/27/04	On-road
Engine Manufacturer Diagnostic System Requirements for 2007 and Subsequent Model Heavy Duty Engines. T 13, CCR, 1971	05/20/04	On-road
Urban Bus Engines/Fleet Rule for Transit Agencies. T 13, CCR, 1956.1, 1956.2, 1956.3, and 1956.4,	06/24/04	On-road
Airborne Toxic Control Measure for Diesel Particulate from Diesel Fueled Commercial Vehicle Idling. T 13, CCR, 2485	07/22/04	On-road
Greenhouse Gas. T 13, CCR, 1961.1, 1900, 1961 and Incorporated Test Procedures	09/23/04	On-road
California Reformulated Gasoline, Phase 3. T 13, CCR, 2260, 2262, 2262.4, 2262.5, 2262.6, 2262.9, 2263, 2265 (and the incorporated "California Procedures"), and 2266.5	11/18/04	Fuels
Diesel Fuel Standards for Harborcraft & Locomotives. T 13, CCR, 2299, 2281, 2282, and 2284, and T 17, CCR, 93117	11/18/04	Fuels
Emergency Regulation for Temporary Delay of Diesel Fuel Lubricity Standard. T 13, CCR, 2284	11/24/04	Fuels
Transit Fleet Rule. T 13, CCR, 2023, 2023.1, 2023.2, 2023.3, 2023.4, 1956.1, 2020, 2021, repeal 1956.2, 1956.3, 1956.4	02/24/05	On-road
On-Board Diagnostic System Requirements for 2010 and Subsequent Model-Year Heavy-Duty Engines (HD OBD). T 13, CCR, 1971.1	07/21/05	On-road
2007-2009 Model-Year Heavy Duty Urban Bus Engines and the Fleet Rule for Transit Agencies. T 13, CCR, 1956.1, 1956.2, and 1956.8	09/15/05	On-road
Requirements to Reduce Idling Emissions from New and In-Use Trucks, Beginning in 2008. T 13, CCR section 1956.8 and the incorporated document	10/20/05	On-road
Diesel Particulate Matter Control Measure for On-Road Heavy-Duty Diesel-Fueled Vehicles Owned or Operated by Public Agencies and Utilities. T 13, CCR, 2022 and 2022.1	12/08/05	On-road
AB1009 Heavy-Duty Vehicle Smoke Inspection Program. T 13, CCR, 2180, 2180.1, 2181, 2182, 2183, 2184, 2185, 2186, 2187, and 2188, 2189	01/26/06	On-road
Diesel Verification Procedure, Warranty & In-Use. T 13, CCR, 2702, 2703, 2704, 2706, 2707, and 2709.	03/23/06	On-road



Measure	Hearing Date	Category
Technical Amendments to Evaporative Exhaust and Evaporative Emissions Test Procedures. T 13, CCR, 1961,1976 and 1978.	05/25/06	On-road
California Motor Vehicle Service Information Rule. T 13, CCR, 1969 and incorporated documents	06/22/06	On-road
Heavy-Duty In-Use Compliance Regulation. T 13, CCR, 1956.1, 1956.8, and documents incorporated by reference	09/28/06	On-road
On-Board Diagnostic II. T 13, CCR, 1968.2, 1968.5, 2035, 2037 and 2038	09/28/06	On-road
Zero Emission Bus Regulation. T13, CCR, 2023.1, 2023.3, & 2023.4	10/19/06	On-road
Voluntary Accelerated Retirement Regulation. T 13, CCR, 2601-2610 and appendices A-D	12/07/06	On-road
Phase 3 Reformulated Gasoline (Ethanol Permeation) T 13, CCR, 2260, 2261, 2262, 2263, 2264, 2265, 2266, 2270, 2271, and 2273	06/14/07	On-road
Aftermarket Catalytic Converters and Used Catalytic Converters T 13, CCR, 2222	10/25/07	On-road
Port Truck Modernization T 13, CCR, 2027	12/07/07	On-road
Cleaner In-Use Heavy-Duty Trucks T 13, CCR, 2025	12/11/08	On-road
Enhanced Fleet Modernization Program (formerly "Expanded Vehicle Retirement Program") T 13, CCR, 2620, 2621, 2622, 2623, 2624, 2625, 2626, 2627, 2628, 2629, and 2630	06/26/09	On-road
Advanced Clean Cars T 13, CCR, 1900, 1956, 1960, 1961, 1962, 1965, 1968, 1976, 1978, 2037, 2038, 2062, 2112, 2139, 2140, 2145, 2147, 2235, 2300, 2302, 2303, 2304, 2306, 2307, 2308, 2309, 2310, 2311, 2312, 2313, 2314, 2315, 2316, 2317, and 2318	01/27/12	On-road



## Attachment B

### ADOPTED TRANSPORTATION CONTROL MEASURES

The following tables represent each county's RACM commitment to implement TCMs as submitted for the *2002 Severe Area Ozone Plan* and approved by EPA.

**Table D-6 San Joaquin Council of Governments Summary of Commitments - 2002 Severe Area Ozone Plan**

Number	Measure Title	SJCOG	Escalon	Lathrop	Lodi	Manteca	Ripon	Stockton	Tracy	County of San Joaquin	San Joaquin Regional Transit District
	<b>Resolution Adopting Local Government Control Measures for the Severe Area Ozone Plan</b>	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
											✓
SJC1.1	Regional Express Bus Program										✓
SJC1.2	Transit Access to Airports										✓
SJC1.3	Study Benefits of Bus Retrofit Program								✓		✓
SJC1.4	Mass Transit Alternatives										✓
SJC1.5	Expansion of Public Transportation Systems								✓		✓
SJC1.6	Transit Service Improvements in Combination with Park-and-Ride Lots and Parking Management								✓		✓
SJC1.7	Free (to the public) transit during special events								✓		✓
SJC1.9	Increase parking at transit centers or stops								✓		
SJC3.1	Commute Solutions	✓									
SJC3.2	Parking Cash-Out	✓									
SJC3.3	Employer Rideshare Program Incentives	✓									
SJC3.5	Preferential Parking for Carpools and Vanpools	✓									
SJC3.8	Purchase vans for vanpools	✓									
SJC3.9	Encourage merchants and employers to subsidize the cost of transit for employees	✓			✓				✓		
SJC13.16	Telecommuting	✓									
SJC5.1	Develop Intelligent Transportation Systems	✓							✓		
SJC5.2	Coordinate Traffic Signal Systems		✓	✓	✓	✓		✓	✓	✓	
SJC5.3	Reduce Traffic Congestion at Major Intersections		✓	✓	✓	✓		✓	✓	✓	
SJC5.4	Site-Specific Transportation Control Measures		✓	✓	✓	✓		✓	✓	✓	
SJC5.6	Reversible Lanes				✓						
SJC5.7	One-Way Streets							✓	✓		
SJC5.8	On-Street Parking Restrictions			✓		✓		✓	✓	✓	

**Table D-6 San Joaquin Council of Governments Summary of Commitments - 2002 Severe Area Ozone Plan**

Number	Measure Title	SJCOG	Escalon	Lathrop	Lodi	Manteca	Ripon	Stockton	Tracy	County of San Joaquin	San Joaquin Regional Transit District
SJC5.9	Bus Pullouts in Curbs for Passenger Loading			✓				✓	✓		
SJC5.10	Additional Freeway Service Patrol										
SJC5.16	Adaptive traffic signals and signal timing		✓	✓	✓			✓	✓		
SJC5.17	Freeway bottleneck improvements (add lanes, construct shoulders, etc.)	✓									
SJC6.1	Park and Ride Lots	✓	✓						✓		
SJC6.2	Park and Ride lots serving perimeter counties	✓									
SJC7.3	Involve school districts to encourage walking/bicycling to school								✓		
SJC7.4	Adjust school hours so they do not coincide with peak traffic periods and Ozone seasons										
SJC7.11	Auto restricted zones								✓		
SJC8.1	Financial Incentives	✓									
SJC8.2	Internet ridematching services	✓									
SJC8.3	Preferential parking for carpoolers	✓									
SJC8.4	Credits and incentives for carpoolers	✓									
SJC8.5	Encourage employers to provide vehicles to carpoolers for running errands or emergencies	✓									
SJC8.6	Subscription Services										✓
SJC9.1	Establish Auto Free Zones and Pedestrian Malls		✓		✓			✓			
SJC9.2	Encouragement of Pedestrian Travel		✓	✓		✓		✓	✓	✓	
SJC9.3	Bicycle/Pedestrian Program		✓	✓	✓	✓		✓	✓	✓	
SJC9.4	Close certain roads for use by non-motorized traffic		✓	✓	✓	✓		✓	✓	✓	
SJC9.5	Encouragement of Bicycle Travel	✓	✓	✓					✓		
SJC9.8	Close streets for special events for use by bikes and pedestrians when/where appropriate		✓	✓	✓	✓		✓	✓	✓	
SJC10.2	Bike Racks on Buses	✓							✓		✓
SJC10.4	Development of Bicycle Travel Facilities	✓	✓	✓	✓	✓		✓	✓	✓	

**Table D-6 San Joaquin Council of Governments Summary of Commitments - 2002 Severe Area Ozone Plan**

Number	Measure Title	SJCOG	Escalon	Lathrop	Lodi	Manteca	Ripon	Stockton	Tracy	County of San Joaquin	San Joaquin Regional Transit District
SJC13.1	Alternative Work Schedules	✓							✓		
SJC13.2	Modifications of Work Schedules	✓							✓		
SJC13.3	Telecommunications-Telecommuting	✓									
SJC13.4	Telecommunications-Teleconferencing	✓									
SJC14.3	Land Use/Development Alternatives		✓	✓	✓	✓		✓		✓	
SJC14.6	Transportation for Livable Communities (TLC)/Housing Incentive Program	✓							✓		
SJC15.1	Encouragement of Pedestrian Travel	✓							✓		
SJC15.2	Pedestrian and Bicycle Overpasses Where Safety Dictates		✓	✓	✓	✓		✓			
SJC17.1	Enforcement of Traffic, Parking, and Air Pollution Regulations		✓			✓		✓			
SJC17.6	Satellite campuses										
TCM1	Traffic Flow Improvements				✓	✓		✓	✓	✓	
TCM2	Public Transit								✓		✓
TCM3	Rideshare Programs	✓									
TCM4	Bicycle Programs	✓	✓	✓	✓	✓		✓	✓	✓	
TCM5	Alternative Fuels Program				✓			✓	✓	✓	
EPA	Commuter Benefits	✓									
District	Heavy Duty Engine Emission Reduction Incentive Program										

**Table D-7 Stanislaus Council of Governments Summary of Commitments - 2002 Severe Area Ozone Plan**

Number	Measure Title	StanCOG	Ceres	Hughson	Modesto	Newman	Oakdale	Patterson	Riverbank	Turlock	Waterford	Stanislaus County
	<b>Resolution Adopting Local Government Control Measures for the Severe Area Ozone Plan</b>	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
ST1.1	Regional Express Bus Program				✓							
ST1.2	Transit Access to Airports				✓							
ST1.4	Mass Transit Alternatives		✓				✓		✓	✓		
ST1.5	Expansion of Public Transportation Systems		✓		✓					✓		✓
ST1.7	Free transit during special events		✓		✓			✓				✓
ST3.1	Commute Solutions	✓										
ST3.5	Preferential Parking for Carpools and Vanpools				✓					✓		
ST3.9	Encourage merchants and employers to subsidize the cost of transit for employees						✓					
ST13.16	Telecommuting										✓	
ST5.1	Develop Intelligent Transportation Systems		✓		✓				✓			
ST5.2	Coordinate Traffic Signal Systems		✓		✓			✓		✓		
ST5.3	Reduce Traffic Congestion at Major Intersections		✓		✓		✓	✓		✓		✓
ST5.4	Site-Specific Transportation Control Measures		✓		✓					✓		
ST5.9	Bus Pullouts in Curbs for Passenger Loading		✓		✓		✓	✓	✓	✓		✓
ST5.13	Fewer stop signs		✓		✓			✓		✓		
ST5.15	Changeable lane assignments											
ST5.16	Adaptive traffic signals and signal timing											✓
ST7.14	Incentives for cities with good development practices											
ST7.15	Cash incentives to foster jobs/housing balance						✓	✓		✓		
ST7.16	Trip reduction oriented development				✓		✓			✓		
ST7.17	Transit oriented development						✓			✓		
ST7.18	Sustainable development				✓		✓			✓		
ST7.19	Establishment of Urban Growth Boundaries									✓		
ST8.1	Financial Incentives, Including Zero Bus Fares				✓							✓

**Table D-7 Stanislaus Council of Governments Summary of Commitments - 2002 Severe Area Ozone Plan**

Number	Measure Title	StanCOG	Ceres	Hughson	Modesto	Newman	Oakdale	Patterson	Riverbank	Turlock	Waterford	Stanislaus County
ST8.2	Internet ride-matching services											
ST8.3	Preferential parking for carpoolers				✓					✓		
ST8.4	Credits and incentives for carpoolers				✓					✓		
ST9.2	Encouragement of Pedestrian Travel			✓			✓	✓		✓	✓	
ST9.3	Bicycle/Pedestrian Program	✓		✓			✓	✓	✓	✓	✓	✓
ST9.5	Encouragement of Bicycle Travel				✓	✓	✓	✓	✓	✓	✓	
ST9.11	Safe Routes to School		✓	✓	✓		✓	✓		✓		
ST10.2	Bike Racks on Buses				✓		✓		✓	✓		✓
ST11.8	Ban cruising during Ozone Alert Days				✓							
ST11.9	Discourage drive-thrus in new development				✓							
ST13.1	Alternative Work Schedules							✓	✓			
ST13.5	Internet commerce and education	✓		✓	✓	✓	✓	✓	✓	✓		✓
ST14.3	Land Use/Development Alternatives		✓		✓							
ST14.7	Incentives to increase density around transit centers											
ST14.8	Incentives for cities with good development practices											
ST15.1	Encouragement of Pedestrian Travel			✓			✓	✓			✓	
ST15.2	Pedestrian and Bicycle Overpasses Where Safety Dictates				✓		✓		✓	✓		
ST17.15	Encourage the purchase and use of alternative, cleaner vehicles								✓	✓		
STTCM1	Traffic Flow Improvements											
STTCM2	Public Transit											
STTCM3	Rideshare Programs											
STTCM4	Bicycle Programs											
STTCM5	Alternative Fuels Program											
ARB	Parking Cash-Out											

**Table D-7 Stanislaus Council of Governments Summary of Commitments - 2002 Severe Area Ozone Plan**

Number	Measure Title	StanCOG	Ceres	Hughson	Modesto	Newman	Oakdale	Patterson	Riverbank	Turlock	Waterford	Stanislaus County
EPA	Commute Benefits											
District	Heavy Duty Engine Emission Reduction Incentive Program											
	<b>ADDITIONAL COMMITMENTS FOR MEASURES NOT ON THE SUGGESTED LIST</b>											
10.1	Region-wide Mandatory Bile Racks at Work Sites		✓									

**Table D-8 Merced County Association of Governments Summary of Commitments - 2002 Severe Area Ozone Plan**

Number	Measure Title	MCAG	Atwater	Dos Palos	Gustine	Livingston	Los Banos	Merced	County of Merced	Transit Joint Powers Authority for Merced County
	<b>Resolution Adopting Local Government Control Measures for the Severe Area Ozone Plan</b>	✓	✓	✓	✓	✓	✓	✓	✓	✓
ME1.5	Expansion of Public Transportation Systems									✓
ME1.10	Particulate Trap Retrofit									
ME3.1	Commute Solutions	✓								
ME3.3	Employer Rideshare Program Incentives									
ME3.9	Encourage merchants and employers to subsidize the cost of transit for employees									✓
ME5.3	Reduce Traffic Congestion at Major Intersections		✓	✓	✓	✓	✓	✓	✓	
ME5.7	One-Way Streets							✓		
ME5.9	Bus Pullouts in Curbs for Passenger Loading									✓
ME5.19	Internet provided road and route information									
ME8.2	Internet ride-matching services	✓								
ME9.2	Encouragement of Pedestrian Travel									
ME9.3	Bicycle/Pedestrian Program									
ME9.4	Close certain roads for use by non-motorized traffic		✓	✓	✓	✓	✓	✓	✓	
ME9.5	Encouragement of Bicycle Travel									
ME10.2	Bike Racks on Buses									
ME14.3	Land Use/Development Alternatives		✓	✓	✓	✓	✓	✓	✓	
ME14.5	Evaluation of the Air Quality Impacts of New development and Mitigation of Adverse Impacts		✓	✓	✓	✓	✓	✓	✓	
ME15.1	Encouragement of Pedestrian Travel									
ME17.12	Use scout troops, churches, public figures to carry message of air pollution problems									



**Table D-8 Merced County Association of Governments Summary of Commitments - 2002 Severe Area Ozone Plan**

Number	Measure Title	MCAG	Atwater	Dos Palos	Gustine	Livingston	Los Banos	Merced	County of Merced	Transit Joint Powers Authority for Merced County
TCM1	Traffic Flow Improvements		✓	✓	✓	✓	✓		✓	
TCM2	Public Transit							✓		
TCM3	Rideshare Programs	✓								
TCM4	Bicycle Programs									

Table D-9 Madera County Transportation Commission Summary of Commitments - 2002 Severe Area Ozone Plan

Number	Measure Title	MCTC	Chowchilla	Madera County	Madera
	Resolution Adopting Local Government Control Measures for the Sever Area Ozone Plan	✓	✓	✓	✓
MA1.5	Expansion of Public Transportation Systems		✓	✓	✓
MA1.7	Free transit during special events				✓
MA3.1	Commute Solutions	✓			
MA3.5	Preferential Parking for Carpools and Vanpools	✓			
MA3.9	Encourage merchants and employers to subsidize the cost of transit for employees	✓			
MA5.1	Develop Intelligent Transportation Systems		✓	✓	✓
MA5.2	Coordinate Traffic Signal Systems				✓
MA5.3	Reduce Traffic Congestion at Major Intersections			✓	✓
MA5.5	Removal of On-Street Parking				
MA5.9	Bus Pullouts in Curbs for Passenger Loading				✓
MA5.19	Internet provided road and route information		✓	✓	✓
MA7.3	Involve school districts to encourage walking to school				
MA9.2	Encouragement of Pedestrian Travel				
MA9.3	Bicycle/Pedestrian Program		✓	✓	✓
MA9.5	Encouragement of Bicycle Travel				
MA9.8	Close streets for special events for use by bikes and pedestrians			✓	✓
MA10.2	Bike Racks on Buses				
MA11.2	Encourage Limitations on Vehicle Idling	✓			
MA11.6	Promote use of Pony engines	✓			
MA13.3	Telecommunications-Telecommuting	✓			
MA13.4	Telecommunications-Teleconferencing	✓	✓	✓	✓
MA14.1	Area wide Public Awareness Programs	✓			

**Table D-9 Madera County Transportation Commission Summary of Commitments - 2002 Severe Area Ozone Plan**

Number	Measure Title	MCTC	Chowchilla	Madera County	Madera
MA14.5	Evaluation of the Air Quality Impacts of New development and Mitigation of Adverse Impacts		✓	✓	✓
MA15.1	Encouragement of Pedestrian Travel				
MA17.12	Use scout troops, churches, public figures to carry message of air pollution problems				
TCM1	Traffic Flow Improvements		✓	✓	✓
TCM2	Public Transit		✓	✓	✓
TCM3	Rideshare Programs	✓			
TCM4	Bicycle Programs				
TCM5	Alternative Fuels Program			✓	✓
EPA	Commute Benefits	*			

\* MCTC has indicated that implementation of this measure is included in Measure 3.1 Commute Solutions, but was inadvertently omitted from the resolution package.

**Table D-10 Fresno Council of Governments Summary of Commitments - 2002 Severe Area Ozone Plan**

Number	Measure Title	Fresno COG	Clovis/Clovis Transit	Coalinga	Firebaugh	Fowler	Fresno/Fresno Area Express	Huron	Kerman	Kingsburg	Mendota	Orange Cove	Parlier	Reedley	Sanger	San Joaquin	Selma	Fresno County	Fresno County Rural Transit Agency
	<b>Resolution Adopting Local Government Control Measures for the Severe Area Ozone Plan</b>	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
FR1.1	Regional Express Bus Program		✓				✓												✓
FR1.2	Transit Access to Airports		✓				✓												
FR1.3	Study Benefits of Bus Retrofit Program		✓				✓												
FR1.4	Mass Transit Alternatives		✓				✓												✓
FR1.5	Expansion of Public Transportation Systems		✓				✓												✓
FR1.6	Transit Service Improvements in Combination with Park-and-Ride Lots and Parking Management																		
FR1.7	Free transit during special events		✓				✓												
FR1.9	Increase parking at transit centers or stops						✓												
FR2.3	Fixed Lanes for Buses and Carpools on Arterials																		
FR3.1	Commute Solutions	✓																	
FR3.2	Parking Cash-Out	✓																	
FR3.3	Employer Rideshare Program Incentives																		
FR3.5	Preferential Parking for Carpools and Vanpools	✓																	
FR3.6	Employee Parking Fees	✓																	
FR3.8	Purchase vans for vanpools																		
FR3.9	Encourage merchants and employers to subsidize the cost of transit for employees	✓																	
FR13.16	Telecommuting																		
FR5.1	Develop Intelligent Transportation Systems		✓				✓												
FR5.2	Coordinate Traffic Signal Systems		✓				✓	✓	✓				✓	✓	✓		✓	✓	
FR5.3	Reduce Traffic Congestion at Major Intersections		✓	✓		✓	✓	✓	✓	✓			✓	✓	✓	✓	✓	✓	
FR5.4	Site-Specific Transportation Control Measures		✓	✓		✓	✓	✓	✓	✓			✓	✓	✓	✓	✓	✓	

**Table D-10 Fresno Council of Governments Summary of Commitments - 2002 Severe Area Ozone Plan**

Number	Measure Title	Fresno COG	Clovis/Clovis Transit	Coalinga	Firebaugh	Fowler	Fresno/Fresno Area Express	Huron	Kerman	Kingsburg	Mendota	Orange Cove	Parlier	Reedley	Sanger	San Joaquin	Selma	Fresno County	Fresno County Rural Transit Agency
FR5.5	Removal of On-Street Parking		✓	✓			✓	✓		✓		✓		✓	✓		✓	✓	
FR5.6	Reversible Lanes																		
FR5.7	One-Way Streets																✓		
FR5.8	On-Street Parking Restrictions		✓				✓											✓	
FR5.9	Bus Pullouts in Curbs for Passenger Loading		✓				✓											✓	
FR5.10	Additional Freeway Service Patrol	✓																	
FR5.11	Consider coordinating scheduling of arterial and highway maintenance to exclude ozone action days if the maintenance activities require lane reductions on heavily utilized arterials and highways		✓				✓											✓	
FR5.13	Fewer stop signs, remove unwarranted and "political" stop signs and signals		✓		✓		✓			✓				✓			✓	✓	
FR5.14	Ban left turns		✓				✓												
FR5.15	Changeable lane assignments																		
FR5.16	Adaptive traffic signals and signal timing		✓				✓											✓	
FR5.18	Minimize impact of construction on traveling public. Have contractors pay when lanes are closed as an incentive to keep lanes open		✓	✓		✓	✓	✓		✓	✓	✓	✓	✓	✓	✓	✓	✓	
FR6.1	Park and Ride Lots					✓		✓	✓	✓			✓	✓		✓	✓		
FR6.2	Park and Ride lots serving perimeter counties					✓		✓	✓	✓			✓	✓		✓	✓		
FR7.12	Incentives to increase density around transit centers		✓				✓												
FR8.1	Financial Incentives, Including Zero Bus Fares																		
FR8.2	Internet ride-matching services	✓																	
FR8.3	Preferential parking for carpoolers	✓																	
FR8.4	Credits and incentives for carpoolers	✓																	
FR8.5	Employers provide vehicles to carpoolers for running errands or emergencies	✓																	
FR8.6	Subscription Services																		✓

**Table D-10 Fresno Council of Governments Summary of Commitments - 2002 Severe Area Ozone Plan**

Number	Measure Title	Fresno COG	Clovis/Clovis Transit	Coalinga	Firebaugh	Fowler	Fresno/Fresno Area Express	Huron	Kerman	Kingsburg	Mendota	Orange Cove	Parlier	Reedley	Sanger	San Joaquin	Selma	Fresno County	Fresno County Rural Transit Agency
FR9.1	Establish Auto Free Zones and Pedestrian Malls			✓			✓			✓									
FR9.2	Encouragement of Pedestrian Travel		✓	✓		✓	✓	✓	✓	✓		✓	✓	✓	✓	✓			
FR9.3	Bicycle/Pedestrian Program		✓	✓	✓	✓	✓	✓	✓		✓	✓	✓	✓	✓	✓	✓	✓	
FR9.4	Close certain roads for use by non-motorized traffic		✓	✓			✓			✓		✓		✓	✓		✓	✓	
FR9.5	Encouragement of Bicycle Travel		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
FR9.7	Cash Rebates for Bikes																		
FR9.8	Close streets for special events for use by bikes and pedestrians		✓	✓			✓			✓		✓		✓	✓		✓	✓	
FR9.10	Provide funding so volunteers do not have to pay the cost of trail creation and maintenance		✓		✓		✓							✓				✓	
FR10.2	Bike Racks on Buses		✓				✓												
FR10.4	Development of Bicycle Travel Facilities		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
FR10.5	Expedite Bicycle Projects from RTP		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
FR10.6	Provide Bike/Pedestrian facilities safety patrols		✓		✓		✓	✓			✓			✓			✓		
FR10.7	Require inclusion of bicycle lanes on state or federally funded thoroughfare projects.		✓	✓		✓	✓		✓	✓		✓	✓	✓	✓	✓	✓		
FR11.3	Turn off engines while stalled in traffic																		
FR13.1	Alternative Work Schedules	✓																	
FR13.2	Modifications of Work Schedules	✓																	
FR13.3	Telecommunications-Telecommuting	✓																	
FR13.4	Telecommunications-Teleconferencing	✓																	
FR14.3	Land Use/Development Alternatives		✓			✓	✓		✓			✓	✓	✓	✓	✓	✓	✓	
FR14.5	Evaluation of the Air Quality Impacts of New Development and Mitigation of Adverse Impacts		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
FR14.7	Incentives to increase density around transit centers		✓				✓												
FR15.1	Encouragement of Pedestrian Travel	✓																	
FR15.2	Pedestrian and Bicycle Overpasses Where Safety Dictates		✓				✓											✓	

Table D-10 Fresno Council of Governments Summary of Commitments - 2002 Severe Area Ozone Plan

Number	Measure Title	Fresno COG	Clovis/Clovis Transit	Coalinga	Firebaugh	Fowler	Fresno/Fresno Area Express	Huron	Kerman	Kingsburg	Mendota	Orange Cove	Parlier	Reedley	Sanger	San Joaquin	Selma	Fresno County	Fresno County Rural Transit Agency
FR17.1	Enforcement of Traffic, Parking, and Air Pollution Regulations		✓	✓	✓		✓	✓		✓					✓		✓		
FR17.6	Satellite campuses																		
FR-TCM1	Traffic Flow Improvements		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
FR-TCM2	Improved Public Transit						✓						✓						✓
FR-TCM3	Voluntary Rideshare Program and Employer Incentive Program	✓																	
FR-TCM4	Bicycle Lanes and Facilities		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
FR-TCM5	Alternative Fuels Program		✓		✓	✓	✓				✓			✓				✓	
FR-TCM6	Park and Ride Fringe Parking					✓		✓	✓	✓			✓	✓		✓	✓		
ARB	Parking Cash-Out	✓																	
EPA	Commute Benefits	✓																	
District	Heavy Duty Engine Emission Reduction Incentive Program																		
FR19.1	Regional Express Bus Program		✓				✓												✓
FR19.2	Expansion of Public Transportation Systems		✓				✓												✓
FR19.3	Consolidation of Public Transit Operators						✓												
FR19.4	Increase Parking at Transit Centers or Stops						✓			✓				✓					
FR19.5	Transit Stop Improvements		✓				✓												✓
FR19.6	Productivity Improvements		✓				✓												✓
FR19.7	Ridership Targets						✓												
FR19.18	Pedestrian facilities		✓	✓		✓	✓	✓		✓	✓	✓	✓	✓	✓	✓	✓	✓	
FR19.25	Optimize traffic signal timing		✓				✓	✓	✓				✓	✓	✓		✓	✓	
FR19.26	Encourage employers to provide money to employees for home computer purchase so employees can work from home.	✓																	

**Table D-10 Fresno Council of Governments Summary of Commitments - 2002 Severe Area Ozone Plan**

Number	Measure Title	Fresno COG	Clovis/Clovis Transit	Coalinga	Firebaugh	Fowler	Fresno/Fresno Area Express	Huron	Kerman	Kingsburg	Mendota	Orange Cove	Parlier	Reedley	Sanger	San Joaquin	Selma	Fresno County	Fresno County Rural Transit Agency
	<b>ADDITIONAL COMMITMENTS FOR MEASURES NOT ON THE SUGGESTED LIST</b>																		
10.7A	Require Inclusion of Paved Shoulders Adequate for Bicycle Use on State or Federally Funded Reconstruction or Widening of Federal Major Collectors or Greater																	✓	



**Table D-11 Tulare County Association of Governments Summary of Commitments - 2002 Severe Area Ozone Plan**

Number	Measure Title	TCAG	Dinuba	Exeter	Farmersville	Lindsay	Porterville	Tulare	Woodlake	Visalia	County of Tulare
	<b>Resolution Adopting Local Government Control Measures for the Severe Area Ozone Plan</b>	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
TU1.1	Regional Express Bus Program							✓			✓
TU1.2	Transit Access to Airports						✓	✓		✓	
TU1.5	Expansion of Public Transportation Systems		✓	✓	✓	✓		✓	✓	✓	✓
TU1.6	Transit Service Improvements in Combination with Park-and-Ride Lots and Parking Management					✓	✓	✓			
TU1.7	Free transit during special events					✓	✓	✓		✓	
TU1.9	Increase parking at transit centers or stops						✓	✓			
											✓
TU3.1	Commute Solutions			✓	✓		✓	✓	✓		
TU3.2	Parking Cash-Out			✓			✓	✓	✓		✓
TU3.3	Employer Rideshare Program Incentives	✓					✓	✓		✓	
TU3.5	Preferential Parking for Carpools and Vanpools			✓	✓	✓	✓	✓	✓	✓	✓
TU3.8	Purchase vans for vanpools	✓									
TU3.9	Encourage merchants and employers to subsidize the cost of transit for employees	✓					✓	✓		✓	
TU5.1	Develop Intelligent Transportation Systems	✓				✓	✓	✓		✓	
TU5.2	Coordinate Traffic Signal Systems	✓					✓	✓		✓	
TU5.3	Reduce Traffic Congestion at Major Intersections	✓				✓	✓	✓		✓	
TU5.4	Site-Specific Transportation Control Measures	✓		✓	✓	✓	✓	✓	✓	✓	
TU5.5	Removal of On-Street Parking				✓	✓	✓	✓	✓	✓	✓
TU5.8	On-Street Parking Restrictions				✓	✓		✓	✓	✓	
TU5.9	Bus Pullouts in Curbs for Passenger Loading				✓		✓	✓	✓	✓	
TU5.16	Adaptive traffic signals and signal timing			✓	✓		✓	✓		✓	
TU5.19	Internet provided road and route information		✓	✓		✓		✓	✓	✓	
TU5.20	Regional route marking systems to encourage underutilized capacity	✓				✓		✓		✓	
TU6.1	Park and Ride Lots					✓	✓	✓			

**Table D-11 Tulare County Association of Governments Summary of Commitments - 2002 Severe Area Ozone Plan**

Number	Measure Title	TCAG	Dinuba	Exeter	Farmersville	Lindsay	Porterville	Tulare	Woodlake	Visalia	County of Tulare
TU7.3	Involve school districts to encourage walking to school		✓	✓	✓	✓	✓	✓	✓	✓	
TU7.12	Incentives to increase density around transit centers	✓					✓	✓			
TU7.13	Land use/air quality guidelines		✓	✓	✓	✓	✓	✓	✓	✓	
TU7.14	Incentives for cities with good development practices			✓	✓	✓	✓		✓		
TU7.17	Transit oriented development						✓	✓			
TU8.1	Financial Incentives, Including Zero Bus Fares										
TU8.2	Internet ride matching services										
TU8.3	Preferential parking for carpoolers		✓	✓	✓				✓	✓	✓
TU8.4	Credits and incentives for carpoolers		✓							✓	
TU8.5	Employers provide vehicles to carpoolers for running errands or emergencies	✓				✓					
TU8.6	Subscription Services										
TU9.1	Establish Auto Free Zones and Pedestrian Malls					✓		✓			
TU9.2	Encouragement of Pedestrian Travel					✓	✓	✓			
TU9.3	Bicycle/Pedestrian Program	✓				✓	✓	✓		✓	
TU9.4	Close certain roads for use by non-motorized traffic							✓			
TU9.5	Encouragement of Bicycle Travel	✓		✓		✓	✓	✓		✓	
TU9.8	Close streets for special events for use by bikes and pedestrians					✓	✓	✓			
TU9.9	Use condemned dirt roads for bike trails							✓			
TU10.1	Region-wide mandatory bike racks at work sites	✓						✓		✓	
TU10.2	Bike Racks on Buses						✓	✓	✓	✓	✓
TU11.6	Promote use of Pony engines	✓						✓			
TU13.1	Alternative Work Schedules	✓						✓			
TU13.2	Modifications of Work Schedules	✓						✓			
TU13.3	Telecommunications-Telecommuting	✓				✓					
TU13.4	Telecommunications-Teleconferencing	✓				✓		✓		✓	

**Table D-11 Tulare County Association of Governments Summary of Commitments - 2002 Severe Area Ozone Plan**

Number	Measure Title	TCAG	Dinuba	Exeter	Farmersville	Lindsay	Porterville	Tulare	Woodlake	Visalia	County of Tulare
TU14.1	Area-wide Public Awareness Programs		✓					✓			
TU14.2	Special Event Controls			✓	✓		✓		✓		
TU14.3	Land Use/Development Alternatives		✓	✓	✓	✓	✓	✓	✓	✓	✓
TU14.4	Voluntary No Drive Day Programs		✓					✓			
TU14.5	Evaluation of the Air Quality Impacts of New development and Mitigation of Adverse Impacts		✓	✓	✓	✓	✓	✓	✓	✓	✓
TU14.6	Transportation for Livable Communities (TLC)/Housing Incentive Program		✓	✓	✓	✓			✓		
TU14.7	Incentives to increase density around transit centers						✓	✓			
TU14.8	Incentives for cities with good development practices			✓	✓		✓		✓		
TU15.1	Encouragement of Pedestrian Travel									✓	
TU15.2	Pedestrian and Bicycle Overpasses Where Safety Dictates							✓			
TU17.6	Satellite campuses					✓					
TU17.12	Use scout troops, churches, public figures to carry message of air pollution problems	✓	✓	✓	✓		✓	✓	✓	✓	✓
TU17.14	Cool cities approach to reduce heat build-up					✓	✓	✓			
TCM1	Traffic Flow Improvements			✓	✓		✓		✓	✓	✓
TCM2	Public Transit		✓	✓	✓		✓			✓	✓
TCM3	Rideshare Programs						✓				
TCM4	Bicycle Programs	✓				✓		✓	✓	✓	
TCM5	Alternative Fuels Program	✓	✓				✓	✓		✓	✓
ARB	Parking Cash-Out										
EPA	Commute Benefits										
District	Heavy Duty Engine Emission Reduction Incentive Program										
	<b>ADDITIONAL COMMITMENTS FOR MEASURES NOT ON THE SUGGESTED LIST</b>										
TU1.8	Require that government employees use transit for home to work trips, expand transit, and encourage large businesses to promote transit use							✓			
TU3.14	Mandatory compressed work weeks					✓					
TU5.6	Reversible Lanes					☐		✓			
TU5.7	One-Way Streets					☐		✓		✓	

**Table D-11 Tulare County Association of Governments Summary of Commitments - 2002 Severe Area Ozone Plan**

Number	Measure Title	TCAG	Dinuba	Exeter	Farmersville	Lindsay	Porterville	Tulare	Woodlake	Visalia	County of Tulare
TU5.13	Fewer Stop Signs						✓	✓			
TU7.15	Cash incentives to foster jobs/housing balance					✓					
TU7.16	Trip reduction oriented development					✓		✓			
TU7.18	Sustainable development					✓		✓			
TU11.2	Encourage Limitations on Vehicle Idling					<input type="checkbox"/>		✓			
TU17.1	Enforcement of Traffic, Parking, and Air Pollution Regulations					✓					
	Promote Use of Cleaner Lawn and Garden Equipment such as Lower-Emission Four-Stroke and Electric-Powered Equipment							✓			
	Defer Emissions Associated with Governmental Activities							✓			

**Table D-12 Kings County Association of Governments Summary of Commitments - 2002 Severe Area Ozone Plan**

Number	Measure Title	KCAG	Avenal	Corcoran	Hanford	Lemoore	County of Kings	Kings County Area Public Transit Agency
	<b>Resolution Adopting Local Government Control measures for the Severe Area Ozone Plan</b>	✓	✓	✓	✓	✓	✓	✓
KI1.5	Expansion of Public Transportation Systems		✓	✓				✓
KI1.6	Transit Service Improvements in Combination with Park-and-Ride Lots and Parking Management		✓	✓	✓			✓
KI1.7	Free transit during special events		✓	✓	✓			✓
KI3.1	Commute Solutions							
KI3.3	Employer Rideshare Program Incentives					✓		
KI3.5	Preferential Parking for Carpools and Vanpools						✓	
KI3.8	Purchase vans for vanpools		✓					✓
KI3.9	Encourage merchants and employers to subsidize the cost of transit for employees		✓	✓		✓		
KI6.1	Park and Ride Lots		✓		✓			
KI6.2	Park and Ride lots serving perimeter counties		✓		✓			
KI8.2	Internet ride-matching services							
KI8.3	Preferential parking for carpoolers						✓	
KI8.5	Employers provide vehicles to carpoolers for running errands or emergencies							
KI8.6	Subscription Services							
KI9.2	Encouragement of Pedestrian Travel		✓	✓	✓	✓	✓	
KI9.3	Bicycle/Pedestrian Program				✓			
KI9.4	Close certain roads for use by non-motorized traffic		✓	✓	✓	✓	✓	
KI9.5	Encouragement of Bicycle Travel		✓	✓	✓			
KI9.8	Close streets for special events for use by bikes and pedestrians		✓	✓	✓	✓	✓	
KI10.1	Region-wide mandatory bike racks at work sites				✓			
KI10.2	Bike Racks on Buses		✓	✓				✓
KI11.6	Promote use of Pony engines							

**Table D-12 Kings County Association of Governments Summary of Commitments - 2002 Severe Area Ozone Plan**

Number	Measure Title	KCAG	Avenal	Corcoran	Hanford	Lemoore	County of Kings	Kings County Area Public Transit Agency
KI13.1	Alternative Work Schedules				✓		✓	
KI13.2	Modifications of Work Schedules				✓	✓	✓	
KI13.4	Telecommunications-Teleconferencing		✓	✓	✓	✓	✓	
KI14.1	Area-wide Public Awareness Programs				✓			
KI14.3	Land Use/Development Alternatives				✓	✓	✓	
KI14.4	Voluntary No Drive Day Programs							
KI15.1	Encouragement of Pedestrian Travel		✓	✓	✓	✓	✓	
TCM1	Traffic Flow Improvements		✓	✓	✓		✓	
TCM2	Public Transit		✓	✓				✓
TCM3	Rideshare Programs	✓						
TCM4	Bicycle Programs		✓	✓	✓			
TCM5	Alternative Fuels Program				✓		✓	
EPA	Commute Benefits		✓	✓				
	<b>ADDITIONAL COMMITMENTS FOR MEASURES NOT ON THE SUGGESTED LIST</b>							
5.1	Develop Intelligent Transportation Systems				✓			
5.3	Reduce Traffic Congestion at Major Intersections		✓	✓	✓	✓	✓	
5.4	Site-Specific Transportation Control Measures		✓	✓	✓	✓	✓	
5.5	Removal of On-Street Parking		✓	✓	✓	✓	✓	
5.8	On-Street Parking Restrictions				✓		✓	
5.9	Bus Pullouts In Curbs for Passenger Loading				✓		✓	
5.22	Use Dynamic Message Signs to Direct/Smooth Speeds During Incidents						✓	
7.3	Involve School Districts to Encourage Walking to School				✓			
7.13	Land Use/Air Quality Guidelines				✓			
7.14	Incentives for Cities with Good Development Practices				✓			
17.6	Satellite Campuses				✓			

**Table D-13 Kern Council of Governments Summary of Commitments - 2002 Severe Area Ozone Plan**

Number	Measure Title	KCOG	Arvin	Bakersfield	California City*	County of Kern	Delano	Golden Empire Transit	Maricopa	McFarland	Ridgecrest*	Shafter	Taft	Tehachapi*	Wasco
	<b>Resolution Adopting Local Government Control Measures for the Severe Area Ozone Plan</b>	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
KE1.1	Regional Express Bus Program		✓			✓									
KE1.2	Transit Access to Airports														
KE1.4	Mass Transit Alternatives														
KE1.5	Expansion of Public Transportation Systems		✓			✓	✓					✓	✓	<input type="checkbox"/>	
KE1.7	Free transit during special events					✓	✓					✓			✓
KE1.11	Make small dial-a-ride systems free														
KE1.12	Regional Express across county lines														
KE3.1	Commute Solutions														
KE3.2	Parking Cash-Out														
KE3.5	Preferential Parking for Carpools and Vanpools	✓													
KE3.9	Encourage merchants and employers to subsidize the cost of transit for employees						✓					✓			✓
KE3.15	Extend parking cash-out rule to more employers	**													
KE3.17	Promote Employer Rideshare Program Incentives														
KE3.18	Promote compressed work weeks														
KE3.19	Promote voluntary business closures on ozone action days														
KE5.1	Develop Intelligent Transportation Systems			✓									✓	<input type="checkbox"/>	
KE5.2	Coordinate Traffic Signal Systems			✓		✓									
KE5.3	Reduce Traffic Congestion at Major Intersections			✓		✓								✓	✓
KE5.4	Site-Specific Transportation Control Measures			✓		✓									
KE5.5	Removal of On-Street Parking			✓	✓	✓					✓				✓
KE5.8	On-Street Parking Restrictions				✓										
KE5.9	Bus Pullouts in Curbs for Passenger Loading														

**Table D-13 Kern Council of Governments Summary of Commitments - 2002 Severe Area Ozone Plan**

Number	Measure Title	KCOG	Arvin	Bakersfield	California City*	County of Kern	Delano	Golden Empire Transit	Maricopa	McFarland	Ridgecrest*	Shafter	Taft	Tehachapi*	Wasco
KE5.11	Consider coordinating scheduling of arterial and highway maintenance to exclude ozone action days if the maintenance activities require lane reductions on heavily utilized arterials and highways			✓		✓									
KE5.16	Adaptive traffic signals and signal timing			✓											
KE5.18	Minimize impact of construction on traveling public. Have contractors pay when lanes are closed as an incentive to keep lanes open			✓		✓									
KE5.19	Internet provided road and route information			✓		✓	✓					✓			
KE5.20	Regional route marking systems to encourage underutilized capacity			✓		✓	✓					✓			
KE5.22	Use dynamic message signs to direct/smooth speeds during incidents			✓											
KE5.27	Place vehicle sensors further away from intersections														
KE6.1	Park and Ride Lots														
KE7.3	Involve school districts to encourage walking to school														
KE7.4	Adjust school hours so they do not coincide with peak traffic periods and Ozone seasons														
KE7.12	Incentives to increase density around transit centers	✓		✓		✓									
KE7.13	Land use/air quality guidelines			✓		✓									
KE7.14	Incentives for cities with good development practices														
KE7.16	Trip reduction oriented development			✓		✓									
KE7.17	Transit oriented development		✓	✓		✓									✓
KE7.18	Sustainable development			✓		✓									
KE7.19	Shortened government work days during ozone alerts														
KE7.20	Distribute special parking passes for carpoolers														
KE7.21	Outreach program encouraging reduced trips during warmest part of the day														



**Table D-13 Kern Council of Governments Summary of Commitments - 2002 Severe Area Ozone Plan**

Number	Measure Title	KCOG	Arvin	Bakersfield	California City*	County of Kern	Delano	Golden Empire Transit	Maricopa	McFarland	Ridgecrest*	Shafter	Taft	Tehachapi*	Wasco
KE8.2	Internet ride-matching services														
KE9.1	Establish Auto Free Zones and Pedestrian Malls			✓		✓									✓
KE9.2	Encouragement of Pedestrian Travel	✓				✓	✓					✓	✓	✓	
KE9.3	Bicycle/Pedestrian Program		✓			✓	✓				✓	✓	✓	☐	✓
KE9.5	Encouragement of Bicycle Travel	✓		✓	✓	✓	✓					✓	✓	✓	✓
KE9.8	Close streets for special events for use by bikes and pedestrians			✓			✓					✓			✓
KE9.10	Provide funding so volunteers do not have to pay the cost of trail creation and maintenance														
KE10.1	Region-wide mandatory bike racks at work sites			✓		✓	✓					✓			
KE10.2	Bike Racks on Buses		✓			✓	✓								
KE10.3	Regional Bike Parking Ordinance for all new construction			✓		✓							✓	☐	
KE13.2	Modifications of Work Schedules														
KE14.1	Area-wide Public Awareness Programs	✓													
KE14.2	Special Event Controls			✓		✓									
KE14.3	Land Use/Development Alternatives			✓		✓								✓	
KE14.4	Voluntary No Drive Day Programs	✓				✓									
KE14.5	Evaluation of the Air Quality Impacts of New development and Mitigation of Adverse Impacts						✓					✓		✓	✓
KE14.7	Incentives to increase density around transit centers	✓													
KE14.11	COG comments on land use planning decisions that affect transportation and air quality issues														
	Promote Telecommunications-Telecommuting														
	Promote Telecommunications-Teleconferencing														
	Promote voluntary business closures on														

**Table D-13 Kern Council of Governments Summary of Commitments - 2002 Severe Area Ozone Plan**

Number	Measure Title	KCOG	Arvin	Bakersfield	California City*	County of Kern	Delano	Golden Empire Transit	Maricopa	McFarland	Ridgecrest*	Shafter	Taft	Tehachapi*	Wasco
	ozone action days														
KE15.1	Encouragement of Pedestrian Travel	✓													
KE15.2	Pedestrian and Bicycle Overpasses Where Safety Dictates			✓		✓									
KE17.6	Satellite campuses														
KE17.7	Charge more for higher emission fuels														
KE17.12	Use scout troops, churches, public figures to carry message of air pollution problems	✓													
KE17.14	Cool cities approach to reduce heat build-up														
KE17.16	Contact other areas that have been subject to EPA sanctions to determine best ways to implement new air quality measures														
KE17.17	Alternative fuel outreach program														
TCM1	Traffic Flow Improvements														
TCM2	Public Transit														
TCM3	Rideshare Programs														
TCM4	Bicycle Programs														
TCM5	Alternative Fuels Program	✓				✓									✓
ARB	Parking Cash-Out														
EPA	Commute Benefits	***													
District	Heavy Duty Engine Emission Reduction Incentive Program														
	<b>ADDITIONAL COMMITMENTS FOR MEASURES NOT ON THE SUGGESTED LIST</b>														
8.5	Shared LEV Vehicles at Work Sites			✓	✓										
14.9	Business, Industry and Governmental Outreach Program	✓													
14.1	Public Education Program	✓													
Local	Develop Programs that Encourage Good Movements by Rail											✓			
Local	Purchase Low Emission Vehicles (LEV) for Government Fleet Purposes													✓	

**Table D-13 Kern Council of Governments Summary of Commitments - 2002 Severe Area Ozone Plan**

Number	Measure Title	KCOG	Arvin	Bakersfield	California City*	County of Kern	Delano	Golden Empire Transit	Maricopa	McFarland	Ridgecrest*	Shafter	Taft	Tehachapi*	Wasco
<p>* These jurisdictions are located in the Mohave air basin, not the San Joaquin Valley air basin.                      ** KCOG has indicated that this measure is financially infeasible, but was inadvertently omitted from the reasoned justification documentation.                      *** KCOG has indicated that implementation of this measure is included in Measure 14.9, but was inadvertently omitted from the resolution package.</p>															

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