1997 AQMP STATE AND FEDERAL MOBILE SOURCE CONTROL MEASURES

ATTACHMENT 8

Report No. 7
Updated July 25, 1997

Control Measure Description	Scheduled Adoption Date	Actual Adoption Date	Anticipated Emission Reductions	Status
M1: Accelerated Retirement of Cars and Light Trucks Implementation Period: 1997-2010 Implementing Agency: ARB/District Contact: Paul Jacobs, ARB (916) 322-7061	1997	--------	ROG: 14 TPD NOx: 10 TPD	ARB presented draft vehicle scrapping regulations at a public workshop on March 7, 1997. Public hearing originally scheduled for June 1997 is being delayed pending state legislation- no firm date yet. Similarly, no firm date set for ARB issuance of RFP for contractor to implement pilot scrapping program in 1997-1998 timeframe.
M2: Improved Control Technology for Cars and Light Trucks. Implementation Period: 2004-2005 Implementing Agency: ARB Contact: Paul Hughes, ARB (818) 575-6977	2000	--------	ROG: 10 TPD NOx: 13 TPD	ARB to conduct mobile source technology advancement conference from Sept. 29 to Oct. 1, 1997. Also, ARB to conduct symposium in March 1998 to obtain input on zero-emission technologies. ARB has formed an internal working group to assess fuel cell technology and coordinate projects with outside organizations. ARB has also formed a fuel cell panel consisting of outside experts to assess current worldwide fuel cell development efforts.
M3: Accelerated Ultra Low Emission Vehicle Standards for MDVs. Implementation Period: 1998-2004 Implementing Agency: ARB Contact: Paul Hughes, ARB (818) 575-6977	1995	1995	In Baseline	Measure adopted in 1995.
M4: Early Introduction of 2.0 g/bhp-hr NOx Engines in HDDV Fleets through Incentives. Implementation Period: 1997-2002 Implementing Agency: ARB/Districts Contact: Cynthia Marvin, ARB (916) 322-7236	--------	--------	ROG: 0 TPD NOx: 1 TPD	Heavy-Duty Vehicle Ad-Hoc Working Group and District Corridor Group developing market-based strategies/funding mechanisms to achieve emission reductions designated for this measure. Proposed legislation, AB 1368, may provide funding to implement heavy-duty engine emission reduction projects. (Next meeting - TBD)

Note: S[redacted]l areas indicate activities since last report.

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Control Measure Description	Scheduled Adoption Date	Actual Adoption Date	Anticipated Emission Reductions	Status
M5: Additional Reductions Equivalent to a California-only 2.0 g/bhp-hr NOx Standard for Heavy-Duty Diesel Vehicles. Implementation Period: 2000 Implementing Agency: ARB Contact: Cynthia Marvin, ARB (916) 322-7236	1997	--------	ROG: 1 TPD NOx: 6 TPD	Heavy-Duty Vehicle Ad-Hoc Working Group and District Corridor Group developing market-based strategies/funding mechanisms to achieve emission reductions designated for this measure. Proposed legislation, AB 1368, may provide funding to implement heavy-duty engine emission reduction projects. (Next meeting - TBD)
M6: National 2.0 g/bhp-hr NOx Standard for Heavy-Duty Diesel Vehicles *. Implementation Period: 2004 Implementing Agency: U.S. U.S. EPA Contact: Tad Wysor, U.S. EPA (313) 668-4332	1997	--------	ROG: 6 TPD NOx: 45 TPD	U.S. EPA/ARB/Engine Manufacturers signed Statement of Principles (SOP) in July, 1995. U.S. EPA Advanced Notice of Proposed Rulemaking issued June 22, 1996 (61FR33421).
M7: Accelerated Retirement of Heavy-Duty Vehicles. Implementation Period: 1997-2010 Implementing Agency: ARB/Districts Contact: Cynthia Marvin, ARB (916) 322-7236	1997	--------	ROG: 1 TPD NOx: 10 TPD	Heavy-Duty Vehicle Ad-Hoc Working Group assessing alternative strategies to achieve targeted emission reductions. Proposed legislation, AB 1368, may provide funding to implement heavy-duty engine emission reduction projects. (Next meeting - TBD)
M8: Lower Emission Standards for Heavy-Duty Vehicles in California. Implementation Period: 2004 Implementing Agency: ARB Contact: Steve Church, ARB (916) 323-5189	1995	1995	In Baseline	Measure adopted in 1995.

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1997 AQMP STATE AND FEDERAL MOBILE SOURCE CONTROL MEASURES (Cont.)

Control Measure Description	Scheduled Adoption Date	Actual Adoption Date	Anticipated Emission Reductions	Status
M9: California 2.5 g/bhp-hr NOx Standard for Off-Road Diesel Equipment. Implementation Period: 2005 Implementing Agency: ARB Contact: Jackie Lourenco, ARB (818) 575-6676	2001	--------	ROG: 1 TPD NOx: 20 TPD	ARB, U.S. EPA and major manufacturers of diesel-powered non-road engines agreed to SOP in September 1996. ARB to initiate rulemaking process this year. Proposed legislation, AB 1368, may provide funding to implement off-road equipment emission reduction projects.
M10: National 2.5 g/bhp-hr NOx Standard for Off-Road Diesel Equipment.* Implementation Period: 2005 Implementing Agency: U.S. EPA Contact: Don Kopinski, U.S. EPA (313) 668-4229	2001	--------	ROG: 3 TPD NOx: 26 TPD	See Control Measure M9, ANPRM issued August 31, 1995, (60FR45579). Supplemental ANPRM issued January 2, 1997 (62FR200), NPRM expected summer 1997. Proposed legislation, AB 1368, may provide funding to implement off-road equipment emission reduction projects.
M11: Three-way Catalyst for Gasoline & LPG Industrial Equipment in California. Implementation Period: 2000-2004 Implementing Agency: ARB Contact: Jackie Lourenco, ARB (818) 575-6676	1997	--------	ROG: 15 TPD NOx: 8 TPD	Undergoing general assessment by ARB Off-Road Controls Section. ARB initiated contract in March 1997 to assess technological feasibility in support of rulemaking. TAO has finalized contract in June 1997 for the quantification of evaporative emissions from gasoline and LPG-powered off-road equipment. Proposed legislation, AB 1368, may provide funding to implement off-road equipment emission reduction projects.
M12: Three-way Catalyst for Gasoline & LPG Industrial Equipment Nationwide.* Implementation Period: 2000-2004 Implementing Agency: U.S. EPA Contact: Alan Stout, U.S. EPA (313) 741-7805	1997	--------	ROG: 17 TPD NOx: 10 TPD	Undergoing general assessment by U.S. EPA. On-going discussions with manufacturers-making progress toward an SOP, possibly in 1997. NPRM may be issued possibly in 1998. Proposed legislation, AB 1368, may provide funding to implement off-road equipment emission reduction projects.

Note: S l areas indicate activities since last report.

1997 AQMP STATE AND FEDERAL MOBILE SOURCE CONTROL MEASURES (Cont.)

Control Measure Description	Scheduled Adoption Date	Actual Adoption Date	Anticipated Emission Reductions	Status
M13: National and International Standards for Marine Vessels.* Implementation Period: 1998-2001 Implementing Agency: U.S. EPA Contact: Jean-Marie Revelt, U.S. EPA (313) 741-7822	1997	--------	ROG: 0 TPD NOx: 15 TPD	U.S. EPA is participating in IMO negotiations with regard to emission standards for ocean-going vessels-to be completed in 1997. U.S. EPA is currently conducting a public consultative process to obtain input on strategies to reduce marine vessel emissions-to be completed Dec. 1997. MOA's are being negotiated between U.S. EPA and marine industry regarding voluntary emission reduction efforts for SIP credit purposes. U.S. EPA to issue NPRM on high speed domestic marine engines in November 1997, final rule to be adopted in 1998. Proposed legislation, AB 1368, may provide funding for diesel marine vessel emission reduction projects.
M14: National Standards for New and Rebuilt Locomotives.* Implementation Period: 2000-2010 Implementing Agency: U.S. EPA Contact: Charles Moulis, U.S. EPA (313) 741-7826	1997	--------	ROG: 0 TPD NOx: 19 TPD	U.S. EPA issued NPRM on February 11, 1997 (62FR6365). Final rule by December 1997. ARB, U.S. EPA, UP, and BNSF finalized SOP on May 14, 1997 to achieve additional emission reductions in South Coast Air Basin.
M15: National Emission Standards for Aircraft.* Implementation Period: 2000 Implementing Agency: U.S. EPA Contact: Bob Larson, U.S. EPA (313) 668-4277	1999	------	ROG: 3 TPD NOx: 5 TPD	U.S. EPA conducting consultative process to obtain input on strategies to reduce emissions from airport sources-to be completed Dec. 1997. MOA's are being negotiated between U.S. EPA and airline industry regarding voluntary emission reduction efforts for SIP credit purposes. U.S. EPA adopted existing ICAO NOx and CO emission standards on May 1, 1997.

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M16: National Emission Standards for Pleasure Craft.* Implementation Period: 1998 Implementing Agency: U.S. EPA Contact: Bill Charmley, U.S. EPA (313) 668-4466	1996	1996	ROG: 21 TPD NOx: 0 TPD	U.S. EPA adopted final rule on October 4, 1996, (61FR 52087).
Enhanced Inspection and Maintenance program (I/M) for SCAB Contact: Chris Edwards, ARB (916) 255-4484	------	1994	In Baseline	Enhanced I/M currently being phased-in. Gross Polluter Identification & Repair being implemented but loaded mode test, $450 cost repair limit, and remote sensing not implemented yet.

* U.S. EPA to conduct meeting in August/September 1997 to provide an overall status report on mobile source measures that have federal emission reduction assignments. These include M6, M10, M12, M13, M14, M15, and M16.

Acronyms

ANPRM	Advanced Notice of Proposed Rulemaking
BNSF	Burlington Northern and Santa Fe Railway Company
ICAO	International Civil Aviation Organization
IMO	International Maritime Organization
LDA	Light-Duty Automobile
LEV	Low-Emission Vehicle
MOA	Memorandum of Agreement
MOU	Memorandum of Understanding
NPRM	Notice of Proposed Rulemaking
RFP	Request for Proposal
SOP	Statement of Principles
TBD	To be determined
UP	Union Pacific Railroad Company

Note: S[illegible]d areas indicate activities since last report.