

## Appendix G

### ARB Control Measures

#### Overview

California has a long history of comprehensive and innovative emissions controls which have resulted in the strongest mobile source and consumer product control programs in the nation. U.S. EPA has acknowledged the strength of these programs in their approval of ARB's regulations and throughout the waiver process. A list of regulatory actions ARB has taken since 1985 is provided in this appendix to highlight the scope of ARB's actions to reduce mobile source emissions. Links for these actions may be found on the electronic copy of this appendix (<http://www.arb.ca.gov/planning/sip/infrasip/infrasip.htm>).

A list of additional ARB and district rules included in California's SIP is available on U.S. EPA's website (<http://yosemite.epa.gov/R9/r9sips.nsf/CAsips?readform&count=100&state=California>).

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## Air Resources Board Control Measures, 1985-2015

Board Action	Hearing Date
<b>Technical Status and Proposed Revisions to On-Board Diagnostic System Requirements and Associated Enforcement Provisions for Passenger Cars, Light-Duty Trucks, and Medium-Duty Vehicles and Engines (OBD II):</b> amendments to the OBD II regulations that update requirements to account for LEV III applications and monitoring requirements for gasoline and diesel vehicles, and clarify and improve the regulation; also, updates to the associated OBD II enforcement regulation to align it with the proposed amendments to the OBD II regulations and a minor amendment to the definition of "emissions-related part" in title 13, CCR section 1900.	9/25/15
<b>2015 Low Carbon Fuel Standard (LCFS) Amendments (2 of 2):</b> re-adoption of the Low Carbon Fuel Standard, which includes updates and revisions to the regulation now in effect. The proposed regulation was first presented to the Board at its February 2015 public hearing, at which the Board directed staff to make modifications to the proposal.	9/24/15
<b>Proposed Regulation on the Commercialization of Alternative Diesel Fuels (2 of 2):</b> regulation governing the introduction of alternative diesel fuels into the California commercial market, including special provisions for biodiesel.	9/24/15
<b>CA Cap on GHG Emissions and Market-Based Compliance Mechanisms (2 of 2):</b> amendments to the Cap and Trade Regulation to include a new Rice Cultivation Compliance Offset Protocol and an update to the United States Forest Compliance Offset Protocol that would include project eligibility in parts of Alaska.	6/25/15
<b>Intermediate Volume Manufacturer Amendments to the Zero Emission Vehicle Regulation (2 of 2):</b> amendments regarding intermediate volume manufacturer compliance obligations under the Zero Emission Vehicle regulation.	5/21/15
<b>2015 Amendments to Certification Procedures for Vapor Recovery Systems at Gasoline Dispensing Facilities-- Aboveground Storage Tanks and Enhanced Conventional Nozzles:</b> amendments would establish new performance standards and specifications for nozzles used at fleet facilities that exclusively refuel vehicles equipped with onboard vapor recovery systems, would provide regulatory relief for owners of certain existing aboveground storage tanks, and would ensure that mass-produced vapor recovery equipment matches the specifications of equipment evaluated during the ARB certification process.	4/23/15
<b>Proposed Regulation for the Commercialization of Alternative Diesel Fuels (1 of 2):</b> regulation governing the introduction of alternative diesel fuels into the California commercial market, including special provisions for biodiesel. This is the first of two hearings on the item, and the Board will not take action to approve the proposed regulation.	2/19/15
<b>Evaporative Emission Control Requirements for Spark-Ignition Marine Watercraft:</b> regulation for controlling evaporative emissions from spark-ignition marine watercraft. The proposed regulation will harmonize, to the extent feasible, with similar federal requirements, while adding specific provisions needed to support California's air quality needs.	2/19/15
<b>2015 Low Carbon Fuel Standard (LCFS) Amendments (1 of 2):</b> regulation for a Low Carbon Fuel Standard that includes re- adoption of the existing Low Carbon Fuel Standard with updates and revisions. This is the first of two hearings on the item, and the Board will not take action to approve the proposed regulation.	2/19/15
<b>CA Cap on GHG Emissions and Market-Based Compliance Mechanisms to Add the Rice Cultivation Projects and Updated U.S. Forest Projects Protocols (1 of 2):</b> updates to the Cap and Trade Regulation to include a new Rice Cultivation Compliance Offset Protocol and an update to the United States Forest Compliance Offset Protocol that would include project eligibility in parts of Alaska	12/18/14
<b>2014 Amendments to ZEV Regulation:</b> additional compliance flexibility to ZEV manufacturers working to bring advanced technologies to market	10/23/14
<b>LEV III Criteria Pollutant Requirements for Light- and Medium-Duty Vehicles the Hybrid Electric Vehicle Test Procedures, and the HD Otto-Cycle and HD Diesel Test Procedures:</b> applies to the 2017 and subsequent model years	10/23/14
<b>Amendments to Mandatory Reporting Regulation for Greenhouse Gases:</b> further align reporting methods with USEPA methods and factors, and modify reporting requirements to fully support implementation of California's Cap and Trade program	9/19/14
<b>Amendments to the California Cap on Greenhouse Gas Emissions and Market Based Compliance Mechanisms</b> Technical revisions to Mandatory Reporting of Greenhouse Gas Emissions Regulation to further align reporting methods with U.S.EPA update methods and factors, and modify reporting requirements to fully support implementation of California's Cap and Trade program.	9/18/14

## Air Resources Board Control Measures, 1985-2015

Board Action	Hearing Date
<b>Amendments to the AB 32 Cost of Implementation Fee Regulation:</b> amendments to the regulation to make it consistent with the revised mandatory reporting regulation, to add potential reporting requirements, and to incorporate requirements within the mandatory reporting regulation to streamline reporting.	9/18/14
<b>Low Carbon Fuel Standard 2014 Update:</b> As a result of a California Court of Appeal decision, ARB will revisit the LCFS rulemaking process to meet certain procedural requirements of the APA and CEQA. Following incorporation of any modifications to the regulation, the Board will consider the proposed regulation for adoption at a second hearing held in the spring of 2015	7/24/14
<b>Revisions to the Carl Moyer Memorial Air Quality Standards Attainment Program Guidelines for On-Road Heavy-Duty Trucks</b> Revisions to 1) reduce surplus emission reduction period, 2) reduce minimum CA usage requirement, 3) prioritize on-road funding to small fleets, 4) include light HD vehicles 14000-19500 lbs, and 5) clarify program specifications.	7/24/14
<b>Amendments to Enhanced Fleet Modernization (Car Scrap) Program:</b> amendments consistent with SB 459 which requires ARB to increase benefits for low-income California residents, promote cleaner replacement vehicles, and enhance emissions reductions.	6/26/14
<b>Proposed Approval of Amendments to CA Cap on GHG Emissions and Market-Based Compliance Mechanisms - Second hearing</b> of two, continued from October 2013	4/24/14
<b>Truck and Bus Rule Update --</b> Amendments to the Regulation to Reduce Emissions of Diesel Particulate Matter, Oxides of Nitrogen, and Other Criteria Pollutants From In-Use On-Road Diesel-Fueled Vehicles: increasing low-use vehicle thresholds, allowing owners to newly opt-in to existing flexibility provisions, adjusting "NOx exempt" vehicle provisions, and granting additional time for fleets in certain areas to meet PM filter requirements.	4/24/14
<b>Heavy-Duty GHG Phase I: On-Road Heavy-Duty GHG Emissions Rule, Tractor-Trailer Rule, Commercial Motor Vehicle Idling Rule, Optional Reduced Emission Standards, Heavy-Duty Hybrid-Electric Vehicles Certification Procedure</b> New GHG standards for MD and HD engines and vehicles identical to those adopted by the USEPA in 2011 for MYs 2014-18.	12/12/13
<b>Agricultural equipment SIP credit rule</b> Incentive-funded projects must be implemented using Carl Moyer Program Guidelines; must be surplus, quantifiable, enforceable, and permanent, and result in emission reductions that are eligible for SIP credit	10/25/13
<b>Mandatory Report of Greenhouse Gas Emissions</b> Approved a regulation that establishes detailed specifications for emissions calculations, reporting, and verification of GHG emission estimates from significant sources	10/25/13
<b>CA Cap on Greenhouse Gas Emissions and Market-Based Compliance Mechanisms</b> Technical revisions to the Mandatory Reporting of Greenhouse Gas Emissions Reg to further align reporting methods with U.S.EPA, update factors, and modify definitions to maintain consistency with the Cap and Trade program.	10/25/13
<b>Zero emission vehicle test procedures:</b> existing certification test procedures for plug-in hybrid vehicles need to be updated to reflect technology developments. The ZEV reg will require minor modifications to address clarity and implementation issues.	10/24/13
<b>Consumer Products: Antiperspirants, Deodorants, Test Method 310, Aerosol Coatings, Proposed Repeal of Hairspray Credit)</b> Amendments to require various consumer products to reformulate to reduce VOC or reactivity content to meet specified limits, and to clarify various regulatory provisions, improve enforcement, and add analytical procedures.	9/26/13
<b>Alternative fuel certification procedures</b> Amendments to current alternative fuel conversion certification procedures for motor vehicles and engines that will allow small volume conversion manufacturers to reduce the upfront demonstration requirements and allow systems to be sold sooner with lower certification costs than with the current process, beginning with MY 2018.	9/26/13
<b>Vapor Recovery for Gasoline Dispensing Facilities</b> Amendments to certification and test procedures for vapor recovery equipment used on cargo tanks and at gasoline dispensing facilities.	7/25/13
<b>Off-highway recreational vehicle evaporative emission control</b> Staff proposes to set evaporative emission standards to control hydrocarbon emissions from Off-Highway Recreational Vehicles. The running loss, hot soak, and diurnal performance standards can be met by using proven automobile type control technology	7/25/13

## Air Resources Board Control Measures, 1985-2015

Board Action	Hearing Date
<b>Gasoline and diesel fuel test standards</b> Adopted amendments to add test standards for the measurement of prohibited oxygenates at trace levels specified in existing regulations	1/25/13
<b>LEV III and ZEV Programs for Federal Compliance Option</b> Adopted amendments to deem compliance with national GHG new vehicle standards in 2017-2025 as compliance with California GHG standards for the same model years	11/15/12 12/6/12 EO
<b>Consumer products (automotive windshield washing fluid)</b> Adopted amendments to add portions of 14 California counties to the list of areas with freezing temperatures where 25% VOC content windshield washing fluid could be sold	10/18/2012 EO 03/15/13
<b>GHG mandatory reporting, Fee Regulation, and Cap and Trade 2012</b> Adopted amendments to eliminate emission verification for facilities emitting less than 25,000 MTCO <sub>2e</sub> and make minor changes in definitions and requirements	9/20/12 11/2/12 EO
<b>Amendments to Verification Procedure, Warranty and In-Use Compliance Requirements for In-Use Strategies to Control Emissions from Diesel Engines</b> Approved amendments to the verification procedure used to evaluate diesel retrofits through emissions, durability, and field testing. Amendments will lower costs associated with required in-use compliance testing, streamline the in-use compliance process, and will extend time allowed to complete verifications.	8/23/2012 EO 07/02/13
<b>Amendments to On-Board Diagnostics (OBD I and II) Regulations</b> Approved amendments to the light- and medium-duty vehicle and heavy-duty engine OBD regulations.	8/23/2012 EO 06/26/13
<b>Cap and Trade: Amendments to CA Cap on GHG Emissions and Market-Based Compliance Mechanisms, and Amendments Allowing Use of Compliance Instruments Issued by Linked Jurisdictions</b> Amends Cap-and-Trade and compliance mechanisms to add security to the market system and to aid staff in implementation. Amendments include first auction rules, offset registry, market monitoring provisions, and information gathering necessary for the financial services operator.	6/28/12 7/31/12 EO
<b>Vapor recovery defect list</b> Adopted amendments to add defects and verification procedures for equipment approved since 2004, and make minor changes to provide clarity	6/11/12 EO
<b>Tractor-Trailer GHG Regulation: Emergency Amendment</b> Adopted emergency amendment to correct a drafting error and delay the registration date for participation in the phased compliance option	2/29/2012 2/29/12 EO
<b>Advanced Clean Cars (ACC) Regulation: Low-Emission Vehicles and GHG</b> Adopted more stringent criteria emission standards for MY 2015-2025 light and medium duty vehicles (LEV III), amended GHG emission standards for model year 2017-2025 light and medium duty vehicles (LEV GHG), amended ZEV Regulation to ensure the successful market penetration of ZEVs in commercial volumes, amended hydrogen fueling infrastructure mandate of the Clean Fuels Outlet regulation, and amended cert fuel for light duty vehicles from an MTBE-containing fuel to an E10 certification fuel.	1/26/12
<b>Zero Emission Vehicles (ZEV)</b> Adopted amendments to increase compliance flexibility, add two new vehicle categories for use in creating credits, increase credits for 300 mile FCVs, increase requirements for ZEVs and TZEVs, eliminate credit for PZEVs and AT PZEVs, expand applicability to smaller manufacturers, base ZEV credits on range, and make other minor changes in credit requirements	1/26/12
<b>Amendments to Low Carbon Fuel Standard Regulation</b> The amendments address several aspects of the regulation, including: reporting requirements, credit trading, regulated parties, opt-in and opt-out provisions, definitions, and other clarifying language.	12/16/11 10/10/12 EO
<b>Amendments to Small Off-Road Engine and Tier 4 Off-Road Compression-Ignition Engine Regulations And Test Procedures; also "Recreational Marine" Spark-Ignition Marine Engine Amendments (Recreational Boats) adopted.</b> Aligns California test procedures with U.S. EPA test procedures and requires off-road CI engine manufacturers to conduct in-use testing of their entire product lines to confirm compliance with previously established Not-To-Exceed emission thresholds.	12/16/2011 10/25/12 EO
<b>Regulations and Certification Procedures for Engine Packages used in Light-Duty Specially Constructed Vehicles (Kit Cars)</b> Ensures that certified engine packages, when placed into any Kit Car, would meet new vehicle emission standards, and be able to meet Smog Check requirements.	11/17/11 9/21/12 EO
<b>Amendments to the California Reformulated Gasoline Regulations</b> Corrects drafting errors in the predictive model, deletes outdated regulatory provisions, updates the notification requirements, and changes the restrictions on blending CARBOB with other liquids.	10/21/11 8/24/12 EO

## Air Resources Board Control Measures, 1985-2015

Board Action	Hearing Date
<b>Amendments to the In-Use Diesel Transport Refrigeration Units (TRU) ATCM</b> Mechanisms to improve compliance rates and enforceability.	10/21/11 8/31/12 EO
<b>Amendments to the AB 32 Cost of Implementation Fee Regulation</b> Clarifies requirements and regulatory language, revises definitions.	10/20/11 8/21/12 EO
<b>Cap on Greenhouse Gas Emissions and Market-Based Compliance Mechanisms Regulation, Including Compliance Offset Protocols</b> Greenhouse Gas Emissions Cap-and-Trade Program, including compliance offset protocols and multiple pathways for compliance.	10/21/11 8/21/12 EO
<b>Amendments to the Regulation for Cargo Handling Equipment (CHE) at Ports and Intermodal Rail Yards (Port Yard Trucks Reg)</b> Provides additional compliance flexibility, and maintains anticipated emissions reductions. As applicable to yard trucks and two-engine sweepers.	9/22/11 8/12/12 EO
<b>Amendments to the Enhanced Vapor Recovery Regulation for Gasoline Dispensing Facilities</b> New requirement for low permeation hoses at gasoline dispensing facilities.	9/22/11 7/26/12 EO
<b>Amendments to Cleaner Main Ship Engines and Fuel for Ocean-Going Vessels</b> Adjusts the offshore regulatory boundary. Aligns very low sulfur fuel implementation deadlines with new federal requirements.	6/23/11 9/13/12 EO
<b>Particulate Matter Emissions Measurement Allowance For Heavy-Duty Diesel In-Use Compliance Regulation</b> Emission measurement allowances provide for variability associated with the field testing required in the regulation.	6/23/11
<b>Low Carbon Fuel Standard Carbon Intensity Lookup Table Amendments</b> Adds new pathways for vegetation-based fuels	2/24/11
<b>Amendments to Cleaner In-Use Heavy-Duty On-Road Diesel Trucks and LSI Fleets Regulations</b> Amends five regulations to provide relief to fleets adversely affected by the economy, and take into account the fact that emissions are lower than previously predicted.	12/16/10 9/19/11 EO
<b>Tractor-Trailer GHG Regulation Amendment</b> Enacts administrative changes to increase compliance flexibility and reduce costs	12/16/10 10/28/11 EO
<b>Amendments to Cleaner In-Use Off-Road Diesel-Fueled Fleets Regulation</b> Amendments provide relief to fleets adversely affected by the economy, and take into account the fact that emissions are lower than previously predicted.	12/16/10 10/28/11 EO
<b>In-Use On-Road Diesel-Fueled Heavy-Duty Drayage Trucks at Ports and Rail Yard Facilities</b> Amendments add flexibility to fleets' compliance schedules, mitigate the use of noncompliant trucks outside port and rail properties, and provide transition to the Truck and Bus regulation.	12/16/10 9/19/11 EO
<b>Amendments to the Regulation for Mandatory Reporting of Greenhouse Gas Emissions</b> Changes requirements to align with federal greenhouse gas reporting requirements adopted by US EPA.	12/16/10 10/28/11 EO
<b>Cap on Greenhouse Gas Emissions and Market-Based Compliance Mechanisms Regulation</b> Establishes framework and requirements for Greenhouse Gas Emissions Cap-and-Trade Program, including compliance offset protocols.	12/16/10 10/26/11 EO
<b>Amendments to the Consumer Products Regulation</b> Amendments set new or lower VOC limits for some categories, prohibit certain toxic air contaminants, high GWP compounds, and surfactants toxic to aquatic species. Also changes Method 310, used to determine aromatic content of certain products.	11/18/10 9/29/11 EO
<b>Amendment of the ATCM for Diesel Transportation Refrigeration Units (TRU)</b> Amendments expand the compliance options and clarify the operational life of various types of TRUs.	11/18/10 2/2/11 EO
<b>Amendments to the ATCM for Stationary Compression Ignition Engines</b> Approved amendments to closely align the emission limits for new emergency standby engines in the ATCM with the emission standards required by the federal Standards of Performance.	10/21/10 3/25/11 EO
<b>Diesel Vehicle Periodic Smoke Inspection Program</b> Adopted amendments to exempt medium duty diesel vehicles from smoke inspection requirements if complying with Smog Check requirements	10/21/10 8/23/11 EO
<b>Renewable Electricity Standard Regulation</b> Approved a regulation that will require electricity providers to obtain at least 33% of their retail electricity sales from renewable energy resources by 2020.	9/23/10
<b>Energy Efficiency at Industrial Facilities</b> Adopted standards for the reporting of GHG emissions and the feasibility of emissions controls by the largest GHG-emitting stationary sources	7/22/10 5/9/11 EO
<b>Amendments to Commercial Harbor Craft Regulation</b> Approved amendments to require the use of cleaner engines in diesel-fueled crew and supply, barge, and dredge vessels.	6/24/10 4/11/11 EO
<b>Accelerated Introduction of Cleaner Line-Haul Locomotives</b> Agreement with railroads sets prescribed reductions in diesel risk and target years through 2020 at four major railyards	6/24/10
<b>Amendments to New Passenger Motor Vehicle Greenhouse Gas Emission Standards</b> Approved amendments deeming compliance with EPA's GHG standards as compliance with California's standards in 2012 through 2016 model years	2/25/2010 03/29/10
<b>Sulfur Hexafluoride (SF6) Regulation</b> Regulation to reduce emissions of sulfur hexafluoride (SF6), a high-GWP GHG, from high-voltage gas-insulated electrical switchgear.	2/25/10 12/15/10 EO

## Air Resources Board Control Measures, 1985-2015

Board Action	Hearing Date
<b>Amendments to the Statewide Portable Equipment Registration Regulation and Portable Engine ATCM</b> Approved amendments that extend the deadline for removal of certain uncertified portable engines for one year.	1/28/10 8/27/10 EO 12/8/10 EO
<b>Diesel Engine Retrofit Control Verification, Warranty, and Compliance Regulation Amendments</b> Approved amendments to require per-installation compability assessment, performance data collection, and reporting of additional information, and enhance enforceability	1/28/10 12/6/10 EO
<b>Stationary Equipment High-GWP Refrigerant Regulation</b> Approved a regulation to reduce emissions of high-GWP refrigerants from stationary non-residential equipment.	12/1/09 9/14/10 EO
<b>Amendments to Limit Ozone Emissions from Indoor Air Cleaning Devices</b> Adopted amendments to delay the labeling compliance deadlines by one to two years and to make minor changes in testing protocols	12/9/09
<b>Emission Warranty Information Reporting Regulation Amendments</b> Repealed the 2007 regulation and readopted the 1988 regulation with amendments to implement adverse court decision	11/19/09 9/27/10 EO
<b>Amendments to Maximum Incremental Reactivity Tables</b> Added many new compounds and modified reactivity values for many existing compounds in the tables to reflect new research data	11/3/09 7/23/10 EO
<b>AB 32 Cost of Implementation Fee Regulation</b> AB 32 authorizes ARB to adopt by regulation a schedule of fees to be paid by sources of greenhouse gas emissions regulated pursuant to AB 32. ARB staff will propose a fee regulation to support the administrative costs of AB 32 implementation.	9/24/2009 05/06/10 EO
<b>Passenger Motor Vehicle Greenhouse Gas Limits Amendments</b> Approved amendments granting credits to manufacturers for compliant vehicles sold in other states that have adopted California regulations	9/24/09 2/22/10 EO
<b>Consumer Products Amendments</b> Approved amendments that set new VOC limits for multi-purpose solvent and paint thinner products and lower the existing VOC limit for double phase aerosol air fresheners.	9/24/09 8/6/10 EO
<b>Amendments to In-Use Off-Road Diesel-Fueled Fleets Regulation</b> Approved amendments to implement legislatively directed changes and provide additional incentives for early action.	7/23/09 12/2/09 EO 6/3/10 EO
<b>Methane Emissions from Municipal Solid Waste Landfills</b> Approved a regulation to require smaller and other uncontrolled landfills to install gas collection and control systems, and also requires existing and newly installed systems to operate optimally.	6/25/09 5/5/10 EO
<b>Cool Car Standards</b> Approved a regulation requiring the use of solar management window glass in vehicles up to 10,000 lb GVWR.	6/25/09
<b>Enhanced Fleet Modernization (Car Scrap)</b> Approved guidelines for a program to scrap up to 15,000 light duty vehicles statewide.	6/25/09 7/30/10 EO
<b>Amendments to Heavy-Duty On-Board Diagnostics Regulations</b> Approved amendments to the light and medium-duty vehicle and heavy duty engine OBD regulations.	5/28/2009 4/6/10 EO
<b>Smog Check Improvements</b> BAR adopted amendments to implement changes in state law and SIP commitments adopted by ARB between 1996 and 2007	5/7/09 by BAR 6/9/09 EO
<b>AB 118 Air Quality Improvement Program Guidelines</b> The Air Quality Improvement Program provides for up to \$50 million per year for seven years beginning in 2009-10 for vehicle and equipment projects that reduce criteria pollutants, air quality research, and advanced technology workforce training. The AQIP Guidelines describe minimum administrative, reporting, and oversight requirements for the program, and provide general criteria for how the program shall be implemented.	04/23/09 08/28/09 EO
<b>Pesticide Element</b> Reduce volatile organic compound (VOC) emissions from the application of agricultural field fumigants in the South Coast, Southeast Desert, Ventura County, San Joaquin Valley, and Sacramento Metro federal ozone nonattainment areas.	4/20/09 10/12/09 EO (2) 8/2/11 EO
<b>Low Carbon Fuel Standard</b> Approved new standards to lower the carbon content of fuels.	4/20/09 11/25/09 EO
<b>Pesticide Element for San Joaquin Valley</b> DPR Director approved pesticide ROG emission limit of 18.1 tpd and committed to implement restrictions on non-fumigant pesticide use by 2014 in the San Joaquin Valley	4/7/09 DPR
<b>Tire Pressure Inflation Regulation</b> Approved a regulation requiring automotive service providers to perform tire pressure checks as part of every service.	3/26/09 2/4/10 EO
<b>Sulfur Hexafluoride from Non-Utility and Non-Semiconductor Applications</b> Approved a regulation to phase out use of Sulfur Hexafluoride over the next several years.	2/26/09 11/12/09 EO
<b>Semiconductor Operations</b> Approved a regulation to set standards to reduce fluorinated gas emissions from the semiconductor and related devices industry.	2/26/09 10/23/09 EO
<b>Plug-In Hybrid Electric Vehicles Test Procedure Amendments</b> Amends test procedures to address plug-in-hybrid electric vehicles	1/23/09 12/2/09 EO
<b>In-Use Off-Road Diesel-Fueled Fleets Amendments</b> Makes administrative changes to recognize delays in the supply of retrofit control devices	1/22/09
<b>Small Containers of Automotive Refrigerant</b> Approved a regulation to reduce leakage from small containers, adopt a container deposit and return program, and require additional container labeling and consumer education requirements.	1/22/09 1/5/10 EO

## Air Resources Board Control Measures, 1985-2015

Board Action	Hearing Date
<b>Aftermarket Critical Emission Parts on Highway Motorcycles</b> Allows for the sale of certified critical emission parts by aftermarket manufacturers	1/22/09 6/19/09 EO
<b>Heavy-Duty Tractor-Trailer Greenhouse Gas (GHG) Reduction</b> Approved a regulation to reduce greenhouse gas emissions by improving long haul tractor and trailer efficiency through use of aerodynamic fairings and low rolling resistance tires.	12/11/08 10/23/09 EO
<b>Cleaner In-Use Heavy-Duty Diesel Trucks (Truck and Bus Reg)</b> Approved a regulation to reduce diesel particulate matter and oxides of nitrogen through fleet modernization and exhaust retrofits. Makes enforceability changes to public fleet, off-road equipment, and portable equipment regulations.	12/11/08 10/19/09 EO 10/23/09 EO
<b>Large Spark-Ignition Engine Amendments</b> Approved amendments to reduce evaporative, permeation, and exhaust emissions from large spark-ignition (LSI) engines equal to or below 1 liter in displacement.	11/1/08 3/12/09 EO
<b>Small Off-Road Engine (SORE) Amendments</b> Approved amendments to address the excessive accumulation of emission credits.	11/21/08 2/24/10 EO
<b>Proposed AB 118 Air Quality Guidelines for the Air Quality Improvement Program and the Alternative and Renewable Fuel and Vehicle and Technology Program.</b> The California Alternative and Renewable Fuel, Vehicle Technology, Clean Air, and Carbon Reduction Act of 2007 (AB 118) requires ARB to develop guidelines for both the Alternative and Renewable Fuel and Vehicle Technology Program and the Air Quality Improvement Program to ensure that both programs do not adversely impact air quality.	09/25/08      EO 05/20/09
<b>Portable Outboard Marine Tanks and Components (part of Additional Evaporative Emission Standards)</b> Approved a regulation that establishes permeation and emission standards for new portable outboard marine tanks and components.	9/25/08 7/20/09 EO
<b>Cleaner Fuel in Ocean Going Vessels</b> Approved a regulation that requires use of low sulfur fuel in ocean-going ship main engines, and auxiliary engines and boilers.	7/24/08 4/16/09 EO
<b>Spark-Ignition Marine Engine and Boat Amendments</b> Provides optional compliance path for > 500 hp sterndrive/inboard maring engines	7/24/08 6/5/09 EO
<b>Consumer Products Amendments</b> Approved amendments that add volatile organic compound (VOC) limits for seven additional categories and lower limits for twelve previously regulated categories.	6/26/08 5/5/09 EO
<b>Zero emission vehicles</b> Updated California's ZEV requirements to provide greater flexibility with respect to fuels, technologies, and simplifying compliance pathways. Amendments give manufacturers increased flexibility to comply with ZEV requirements by giving credit to plug-in hybrid electric vehicles and establishing additional ZEV categories in recognition of new developments in fuel cell vehicles and battery electric vehicles.	3/27/08 12/17/08 EO
<b>Amendments to the Verification Procedure, Warranty, and In-Use Compliance Requirements for In-Use Strategies to Control Emissions from Diesel Engines</b> Adds verification requirements for control technologies that only reduce NOx emissions, new reduction classifications for NOx reducing technologies, new testing requirements, and conditional extensions for verified technologies	1/24/08 12/4/08 EO
<b>Mandatory Report of Greenhouse Gas Emissions</b> Approved a regulation that establishes detailed specifications for emissions calculations, reporting, and verification of GHG emission estimates from significant sources	12/6/07 10/12/08 EO
<b>Gaseous Pollutant Measurement Allowances for In-Use Heavy-Duty Diesel Compliance</b> Measurement accuracy margins are to be determined through an ongoing comprehensive testing program performed by an independent contractor. Amendments include these measurement accuracy margins into the regulation.	12/6/07 10/14/08 EO
<b>Ocean-Going Vessels While at Berth (aka Ship Hotelling) - Auxiliary Engine Cold Ironing and Clean Technology</b> Approved a regulation that reduces emissions from auxiliary engines on ocean-going ships while at-berth.	12/6/07 10/16/08 EO
<b>In-Use On-Road Diesel-Fueled Heavy-Duty Drayage Trucks at Ports and Rail Yard Facilities</b> Approved a regulation that establishes emission standards for in-use, heavy-duty diesel-fueled vehicles that transport cargo to and from California's ports and intermodal rail facilities.	12/6/07 10/12/08 EO
<b>Commercial Harbor Craft</b> Approved a regulation that establishes in-use and new engine emission limits for both auxiliary and propulsion diesel engines on ferries, excursion vessels, tugboats, and towboats.	11/15/07 9/2/08 EO
<b>Suggested Control Measure for Architectural Coatings Amendments</b> Approved amendments to reduce the recommended VOC content of 19 categories of architectural coatings	10/26/07

## Air Resources Board Control Measures, 1985-2015

Board Action	Hearing Date
<b>Aftermarket Catalytic Converter Requirements</b> Approved amendments that establish more stringent emission performance and durability requirements for used and new aftermarket catalytic converters offered for sale in California	10/25/07 2/21/08 NOD
<b>Limiting Ozone Emissions from Indoor Air Cleaning Devices</b> Approved ozone emission limit of 0.050 ppm for portable indoor air cleaning devices in response to requirements of AB 2276 (2006)	9/27/07 8/7/08 EO
<b>Pesticide Commitment for Ventura County in 1994 SIP</b> Approved substitution of excess ROG emission reductions from state motor vehicle program for 1994 SIP reduction commitment from pesticide application in Ventura County	9/27/07 11/30/07 EO
<b>In-Use Off-Road Diesel Equipment</b> Approved a regulation that requires off-road diesel fleet owners to modernize their fleets and install exhaust retrofits.	7/26/07 4/4/08 EO
<b>Emission Control and Environmental Performance Label Regulations</b> Approved amendments to add a Global Index Label and modify the format of the Smog Index Label on new cars	6/21/07 5/2/08 EO
<b>Vapor Recovery from Aboveground Storage Tanks</b> Approved a regulation to establish new performance standards and specifications for the vapor recovery systems and components used with aboveground storage tanks.	6/21/07 5/2/08 EO
<b>CaRFG Phase 3 amendments</b> Approved amendments to mitigate the increases in evaporative emissions from on-road motor vehicles resulting from the addition of ethanol to gasoline.	6/14/07 4/25/08 EO 8/7/08 EO
<b>Formaldehyde from Composite Wood Products</b> Approved an ATCM to limit formaldehyde emissions from hardwood plywood, particleboard, and medium density fiberboard to the maximum amount feasible	4/26/07 3/5/08 EO
<b>Portable equipment registration program (PERP) and airborne toxic control measure for diesel-fueled portable engines</b> Approved amendments to allow permitting of Tier 0 portable equipment engines used in emergency or low use duty and to extend permitting of certain Tier 1 and 2 "resident" engines to 1/1/10	3/22/07 7/31/07 EO
<b>Perc Control Measure Amendments</b> Approved amendments to the Perchloroethylene ATCM to prohibit new Perc dry cleaning machines beginning 2008 and phase out all Perc machines by 2023.	1/25/07 11/7/07 EO
<b>Amendments to Emission Warranty Information Reporting &amp; Recall Regulations</b> Approved amendments that tighten the provisions for recalling vehicles for emissions-related failures, helping ensure that corrective action is taken to vehicles with defective emission control devices or systems.	12/7/06 3/22/07 10/17/07 EO
<b>Voluntary accelerated vehicle retirement regulations</b> Approved amendments that authorize the use of remote sensing to identify light-duty high emitters and that establish protocols for quantifying emissions reductions from high emitters proposed for retirement	12/7/06
<b>Emergency regulation for portable equipment registration program (PERP), airborne toxic control measures for portable and stationary diesel-fueled engines</b>	12/7/06
<b>Amendments to the Hexavalent Chromium ATCM</b> Approved amendments that require use of best available control technology on all chrome plating and anodizing facilities.	12/7/06
<b>Consumer Products Regulation Amendments</b> Approved amendments that set lower emission limits in 15 product categories.	11/17/06 9/25/07 EO
<b>Requirements for Stationary Diesel In-Use Agricultural Engines</b> Approved amendments to the stationary diesel engine ATCM which set emissions standards for in-use diesel agricultural engines.	11/16/06 7/3/07 NOD
<b>Ships - Onboard Incineration</b> Approved amendments to cruise ship incineration ATCM to include all oceangoing ships of 300 gross registered tons or more.	11/16/06 9/11/07 EO
<b>Zero Emission Bus</b> Approved amendments postponing the 15 percent purchase requirement three years for transit agencies in the diesel path and one to two years for transit agencies in the alternative fuel path, in order to keep pace with developments in zero emission bus technology, and adding an Advanced Demonstration requirement to offset emission losses.	10/19/06 8/27/07 EO
<b>Distributed generation certification</b> Approved amendments improving the emissions durability and testing requirements, adding waste gas emission standards, and eliminating a redundant PM standard in the current 2007 emission standards.	10/19/06 5/17/07 NOD

## Air Resources Board Control Measures, 1985-2015

Board Action	Hearing Date
<b>Heavy-Duty Diesel In-Use Compliance Regulation</b> Approved amendments to the heavy-duty diesel engine regulations and test procedures to create a new in-use compliance program conducted by engine manufacturers. The amendments would help ensure compliance with applicable certification standards throughout an engine's useful life.	9/28/06 7/19/07 NOD
<b>Revisions to OBD II and the Emission Warranty Regulations</b> Approved amendments to the OBD II regulation to provide for improved emission control monitoring including air-fuel cylinder imbalance monitoring, oxygen sensor monitoring, catalyst monitoring, permanent fault codes for gasoline vehicles and new thresholds for diesel vehicles.	9/28/06 8/9/07 EO
<b>Off-Highway Recreational Vehicle Amendments</b> Approved amendments to the Off-Highway Recreational Vehicle Regulations including harmonizing evaporative emission standards with federal regulations, expanding the definition of ATVs, modifying labeling requirements, and adjusting riding seasons.	7/20/06 6/1/07 EO
<b>Portable Equipment Registration Program (PERP) Amendments</b> Approved amendments to the Statewide Portable Equipment Registration program that include installation of hour meters on equipment, and revisions to recordkeeping, reporting, and fees.	6/22/06 11/13/06 NOD
<b>Heavy Duty Vehicle Service Information</b> Approved amendments to the Service Information Rule to require manufacturers to make available diagnostic equipment and information for sale to the aftermarket.	6/22/06 5/3/07 EO
<b>LEV II technical amendments</b> Approved amendments to evaporative emission test procedures, four-wheel drive dynamometer provisions, and vehicle label requirements	6/22/06 9/27/06 NOD
<b>Dry Cleaning ATCM Amendments</b> Approved amendments to the Dry Cleaning ATCM to limit siting of new dry cleaners, phase out use of Perc at co-residential facilities, phase out higher emitting Perc sources at other facilities, and require enhanced ventilation at existing and new Perc facilities	5/25/06
<b>Forklifts and other Large Spark Ignition (LSI) Equipment</b> Adopted a regulation to reduce emissions from forklifts and other off-road spark-ignition equipment by establishing more stringent standards for new equipment, and requiring retrofits or engine replacement on existing equipment. Adopts EPA's standards for 2007; adopts more stringent standards for 2010.	5/25/06 3/2/07 EO
<b>Enhanced Vapor Recovery Amendments</b> Approved amendments to the vapor recovery system regulation and adopted revised test procedures.	5/25/06
<b>Diesel Retrofit Technology Verification Procedure</b> Approved amendments to the Diesel Emission In-use Control Strategy Verification Procedure to substitute a 30% increase limit in NOx concentration for an 80% reduction requirement from PM retrofit devices	3/23/06 12/21/06 NOD
<b>Heavy duty vehicle smoke inspection program amendments</b> Approved amendments to impose a fine on trucks not displaying a current compliance certification sticker	1/26/06 12/4/06 EO
<b>Ocean-going Ship Auxiliary Engine Fuel</b> Approved a regulation to require ships to use cleaner marine gas oil or diesel to power auxiliary engines within 24 nautical miles of the California coast.	12/8/05 10/20/06 EO
<b>Diesel Cargo Handling Equipment</b> Approved a regulation to require new and in-use cargo handling equipment at ports and intermodal rail yards to reduce emissions by utilizing best available control technology.	12/8/05 6/2/06 EO
<b>Public and Utility Diesel Truck Fleets</b> Approved a regulation to reduce diesel particulate matter emissions from heavy duty diesel trucks in government and private utility fleets.	12/8/05 10/4/06 EO
<b>Cruise ships – Onboard Incineration</b> Adopted an Air Toxic Control Measure to prohibit cruise ships from conducting onboard incineration within three nautical miles of the California coast.	11/17/05 2/1/06 NOD
<b>Inboard Marine Engine Rule Amendments</b> Approved amendments to the 2001 regulation to include additional compliance options for manufacturers.	11/17/05 9/26/06 EO
<b>Heavy-Duty Diesel Truck Idling Technology</b> Approved a regulation to limit sleeper truck idling to 5 minutes. Allows alternate technologies to provide cab heating/cooling and power.	10/20/05 9/1/06 EO
<b>Automotive Coating Suggested Control Measure</b> Approved an SCM for automotive coatings for adoption by air districts. The measure will reduce the VOC content of 11 categories of surface protective coatings.	10/20/05
<b>2007-09 Model-year heavy duty urban bus engines and the fleet rule for transit agencies</b> Adopted amendments to align urban bus emission limits with on-road heavy duty truck emission limits and allow for the purchase of non-complying buses under the condition that bus turnover increase to offset NOx increases	10/20/05 10/27/05 7/28/06 EO
<b>Portable fuel containers (part 2 of 2)</b> Approved amendments to revise spout and automatic shutoff design	9/15/05 7/28/06 EO

## Air Resources Board Control Measures, 1985-2015

Board Action	Hearing Date
<b>Portable Fuel Containers (part 1 of 2)</b> Approved amendments to include kerosene containers in the definition of portable fuel containers	9/15/05 11/9/05 NOD
<b>2007-09 Model-year heavy duty urban bus engines and the fleet rule for transit agencies</b> Adopted amendments to require all transit agencies in SCAQMD to purchase only alternate fuel versions of new buses	9/15/05 Superceded by 10/20/05 and
<b>Reid vapor pressure limit emergency rule</b> Approved amendments to relax Reid vapor pressure limit to accelerate fuel production for Hurricane Katrina victims	9/8/05 Operative for September and October 2005 only
<b>Heavy-Duty Truck OBD</b> Approved a regulation to require on-board diagnostic (OBD) systems for new gas and diesel trucks, similar to the systems on passenger cars.	7/21/05 12/28/05 EO
<b>Definition of Large Confined Animal Facility</b> Adopted a regulation to define the size of a large CAF for the purposes of air quality permitting and reduction of ROG emissions to the extent feasible	6/23/05 4/13/06 EO
<b>ATCM for stationary compression ignition engines:</b> Approved emergency amendments (3/17/05) and permanent amendments (5/26/05) to relax the diesel PM emission limits on new stationary diesel engines to current off-road engine standards to respond to the lack of availability of engines meeting the original ATCM standard.	3/17/05 5/26/05 7/29/05 EO
<b>Transit Fleet Rule</b> Approved amendments to add emission limits for non-urban bus transit agency vehicles, require lower bus and truck fleet-average NOx and PM emission limits, and clarify emission limits for CO, NMHC, and formaldehyde	2/24/05 10/19/05 NOD
<b>Thermal Spraying ATCM</b> Approved a regulation to reduce emissions of hexavalent chromium and nickel from thermal spraying operations	12/9/04 7/20/05 EO
<b>Tier 4 Standards for Small Off-Road Diesel Engines (SORE)</b> Approved new emission standards for off-road diesel engines to be phased in between 2008 and 2015	12/9/04 10/21/05 EO
<b>Emergency Regulatory Amendment Delaying the January 1, 2005 Implementation Date for the Diesel Fuel Lubricity Standard</b> Adopted an emergency regulation delaying the lubricity standard compliance deadline by five months to respond to fuel pipeline contamination problems	11/24/04 12/10/04 EO
<b>Enhanced vapor recovery compliance extension</b> Approved amendments to the EVR regulation to extend the compliance date for onboard refueling vapor recovery compatibility to the date of EVR compliance	11/18/04 2/11/05 EO
<b>CaRFG Phase 3 amendments</b> Approved amendments correcting errors and streamlining requirements for compliance and enforcement of CaRFG Phase 3 regulations adopted in 1999	11/18/04
<b>Clean diesel fuel for harborcraft and intrastate locomotives</b> Approved a regulation that required harborcraft and locomotives operating solely within California to use clean diesel fuel.	11/18/04 3/16/05 EO
<b>Nonvehicular Source, Consumer Product, and Architectural Coating Fee Regulation Amendment</b> Approved amendments to fee regulations to collect supplemental fees when authorized by the Legislature	11/18/04
<b>Greenhouse gas limits for motor vehicles</b> Approved a regulation that sets the first ever greenhouse gas emission standards on light and medium duty vehicles starting with the 2009 model year.	9/24/04 8/4/05 EO
<b>Gasoline vapor recovery system equipment defects list</b> Approved the addition of defects to the VRED list for use by compliance inspectors	8/24/04 6/22/05 EO
<b>Unihose gasoline vapor recovery systems</b> Approved an emergency regulation and an amendment to delay the compliance date for unihose installation to the date of dispenser replacement	7/22/04 11/24/04 EO
<b>General Idling Limits for Diesel Trucks</b> Approved a regulation that limits idling of heavy-duty diesel trucks operating in California to five minutes, with exceptions for sleeper cabs.	7/22/04
<b>Consumer Products</b> Approved a regulation to reduce ROG emissions from 15 consumer products categories, prohibit the use of 3 toxic compounds in consumer products, ban the use of PDCB in certain products, allow for the use of Alternative Control Plans, and revise Test Method 310	6/24/04 5/6/05 EO
<b>Urban bus engines/fleet rule for transit agencies</b> Approved amendments to allow for the purchase of hybrid diesel buses and revise the zero emission bus demonstration and purchase timelines	6/24/04
<b>Engine Manufacturer Diagnostics</b> Approved a regulation that would require model year 2007 and later heavy duty truck engines to be equipped with engine diagnostic systems to detect malfunctions of the emission control system.	5/20/04
<b>Chip Reflash</b> Approved a voluntary program and a backstop regulation to reduce heavy duty truck NOx emissions through the installation of new software in the engine's electronic control module.	3/25/04 3/21/05 EO

## Air Resources Board Control Measures, 1985-2015

Board Action	Hearing Date
<b>Portable equipment registration program (PERP)</b> Approved amendments to allow uncertified engines to be registered until December 31, 2005, to increase fees, and to modify administrative requirements	2/26/04 1/7/05 EO 6/21/05 EO
<b>Portable Diesel Engine ATCM</b> Adopted a regulation to reduce diesel PM emissions from portable engines through a series of emission standards that increase in stringency through 2020	2/26/04 1/4/05 EO
<b>California motor vehicle service information rule</b> Adopted amendments to allow for the purchase of heavy duty engine emission-related service information and diagnostic tools by independent service facilities and aftermarket parts manufacturers.	1/22/04 5/20/04
<b>Transportation Refrigeration Unit ATCM</b> Adopted a regulation to reduce diesel PM emissions from transport refrigeration units by establishing emission standards and facility reporting requirements to streamline inspections	12/11/03 2/26/04 11/10/04 EO
<b>Diesel engine verification procedures</b> Approved amendments that reduced warranty coverage to the engine only, delayed the NOx reduction compliance date to 2007, added requirements for proof-of-concept testing for new technology, and harmonized durability requirements with those of EPA	12/11/03 2/26/04 10/17/04
<b>Chip Reflash</b> Approved a voluntary program and a backstop regulation to reduce heavy duty truck NOx emissions through the installation of new software in the engine's electronic control module.	12/11/03 3/27/04 3/21/05 EO
<b>Revised tables of maximum incremental reactivity values</b> Approved the addition of 102 more chemicals with associated maximum incremental reactivity values to existing regulation allowing these chemicals to be used in aerosol coating formulations	12/3/03
<b>Stationary Diesel Engines ATCM</b> Adopted a regulation to reduce diesel PM emissions from stationary diesel engines through the use of clean fuel, lower emission standards, operational practices	11/20/03 12/11/03 2/26/2004 9/27/04 EO
<b>Solid waste collection vehicles</b> Adopted a regulation to reduce toxic diesel particulate emissions from solid waste collection vehicles by over 80 percent by 2010. This measure is part of ARB's plan to reduce the risk from a wide range of diesel engines throughout California.	9/25/03 5/17/04 EO
<b>Small off-road engines (SORE)</b> Adopted more stringent emission standards for the engines used in lawn and garden and industrial equipment, such as string trimmers, leaf blowers, walk-behind lawn mowers, generators, and lawn tractors.	9/25/03 7/26/04 EO
<b>Off-highway recreational vehicles</b> Changes to riding season restrictions	7/24/03
<b>Clean diesel fuel</b> Adopted a regulation to reduce sulfur levels and set a minimum lubricity standard in diesel fuel used in vehicles and off-road equipment in California, beginning in 2006.	7/24/03 5/28/04 EO
<b>Ozone Transport Mitigation Amendments</b> Adopted amendments to require upwind districts to (1) have the same no-net-increase permitting thresholds as downwind districts, and (2) adopt "all feasible measures"	5/22/03 10/2/03 NOD
<b>Zero emission vehicles</b> Updated California's ZEV requirements to support the fuel cell car development and expand sales of advanced technology partial ZEVs (like gasoline-electric hybrids) in the near-term, while retaining a role for battery electric vehicles.	3/27/03 12/19/03 EO
<b>Heavy duty gasoline truck standards</b> Aligned its existing rules with new, lower federal emission standards for gasoline-powered heavy-duty vehicles starting in 2008.	12/12/02 9/23/03 EO
<b>Low emission vehicles II</b> Minor administrative changes	12/12/02 9/24/03 EO
<b>Gasoline vapor recovery systems test procedures</b> Approved amendments to add advanced vapor recovery technology certification and testing standards	12/12/02 7/1/03 EO 10/21/03 EO
<b>CaRFG Phase 3 amendments</b> Approved amendments to allow for small residual levels of MTBE in gasoline while MTBE is being phased out and replaced by ethanol	12/12/02 3/20/03 EO
<b>School bus Idling</b> Adopted a measure requiring school bus drivers to turn off the bus or vehicle engine upon arriving at a school and restart it no more than 30 seconds before departure in order to limit children's exposure to toxic diesel particulate exhaust.	12/12/02 5/15/03 EO
<b>California Interim Certification Procedures for 2004 and Subsequent Model Year Hybrid-Electric Vehicles in the Urban Transit Bus and Heavy-Duty Vehicle Classes Regulation Amendment</b> Adopted amendments to allow diesel-path transit agencies to purchase alternate fuel buses with higher NOx limits, establish certification procedures for hybrid buses, and require lower fleet-average PM emission limits	10/24/02 9/2/03 EO

## Air Resources Board Control Measures, 1985-2015

Board Action	Hearing Date
<b>CaRFG Phase 3 amendments</b> Approved amendments delaying removal of MTBE from gasoline by one year to 12/31/03	7/25/02 11/8/02 EO
<b>Diesel retrofit verification procedures, warranty, and in-use compliance requirements</b> Adopted regulations to specify test procedures, warranty, and in-use compliance of diesel engine PM retrofit control devices	5/16/02 3/28/03 EO
<b>On-board diagnostics for cars</b> Adopted changes to the On-Board Diagnostic Systems (OBD II) regulation to improve the effectiveness of OBD II systems in detecting motor vehicle emission-related problems.	4/25/02 3/7/03 EO
<b>Voluntary accelerated light duty vehicle retirement regulations</b> Establishes standards for a voluntary accelerated retirement program	2/21/02 11/18/02 EO
<b>Residential burning</b> Adopted a measure to reduce emissions of toxic air contaminants from outdoor residential waste burning by eliminating the use of burn barrels and the outdoor burning of residential waste materials other than natural vegetation	2/21/02 12/18/02 EO
<b>California motor vehicle service information rule</b> Adopted regulations to require light- and medium-duty vehicle manufacturers to offer for sale emission-related service information and diagnostic tools to independent service facilities and aftermarket parts manufacturers	12/13/01 7/31/02 EO
<b>Vapor recovery regulation amendments</b> Adopted amendments to expand the list of specified defects requiring equipment to be removed from service	11/15/01 9/27/02 EO
<b>Distributed generation guidelines and regulations</b> Adopted regulations requiring the permitting by ARB of distributed generation sources that are exempt from air district permitting and approved guidelines for use by air districts in permitting non-exempt units	11/15/01 7/23/02 EO
<b>Low emission vehicle regulations (LEV II)</b> Approved amendments to apply PM emission limits to all new gasoline vehicles, extend gasoline PZEV emission limits to all fuel types, and streamline the manufacturer certification process	11/15/01 8/6/02 EO
<b>Gasoline vaport recovery systems test methods and compliance procedures</b> Adopted amendments to add test methods for new technology components, streamline test methods for liquid removal equipment, and***	10/25/01 7/9/02 EO
<b>Heavy-duty diesel trucks</b> Adopted amendments to emissions standards to harmonize with EPA regulations for 2007 and subsequent model year new heavy-duty diesel engines	10/25/01
<b>Automotive coatings</b> Adopted Air Toxic Control Measure which prohibits the sale and use in California of automotive coatings that contain hexavalent chromium or cadmium.	9/20/01 9/2/02 EO
<b>Inboard and sterndrive marine engines</b> Lower emission standards for 2003 and subsequent model year inboard and sterndrive gasoline-powered engines in recreational marine vessels.	7/26/01 6/6/02 EO
<b>Asbestos from construction, grading, quarrying, and surface mining</b> Adopted an Airborne Toxic Control Measure for construction, grading, quarrying, and surface mining operations requiring dust mitigation for construction and grading operations, road construction and maintenance activities, and quarries and surface mines to minimize emissions of asbestos-laden dust	7/26/01 6/7/02 EO
<b>Zero emission vehicle infrastructure and standardization of electric vehicle charging equipment</b> Adopted amendments to the ZEV regulation to alter the method of quantifying production volumes at joint-owned facilities and to add specifications for standardized charging equipment	6/28/01 5/10/02 EO
<b>Pollutant transport designation</b> Adopted amendments to add two transport couples to the list of air basins in which upwind areas are required to adopt permitting thresholds no less stringent than those adopted in downwind areas	4/26/01
<b>Zero emission vehicle regulation amendments</b> Adopted amendments to reduce the numbers of ZEVs required in future years, add a PZEV category and grant partial ZEV credit, modify the ZEV range credit, allow hybrid-electric vehicles partial ZEV credit, grant ZEV credit to advanced technology vehicles, and grant partial ZEV credit for several other minor new programs	1/25/01 12/7/01 EO 4/12/02 EO
<b>Heavy duty diesel engines supplemental test procedures</b> Approved amendments to extend "Not-To-Exceed" and EURO III supplemental test procedure requirements through 2007 when federal requirements will included these tests	12/7/00
<b>Light and medium duty low emission vehicle alignment with federal standards</b> Approved amendments that require light and medium duty vehicles sold in California to meet the more restrictive of state or federal emission standards	12/7/00 12/27/00 EO
<b>Exhaust emission standards for heavy duty gas engines</b> Adopted amendments that establish 2005 emission limits for heavy duty gas engines that are equivalent to federal limits	12/7/00 12/27/00 EO
<b>CaRFG Phase 3 amendments</b> Approved amendments to regulate the replacement of MTBE in gasoline with ethanol	11/16/00 4/25/01 EO
<b>CaRFG Phase 3 test methods</b> Approved amendments to gasoline test procedures to quantify the olefin content and gasoline distillation temperatures	11/16/00 7/11/01 EO 8/28/01 EO

## Air Resources Board Control Measures, 1985-2015

Board Action	Hearing Date
<b>Antiperspirant and deodorant regulations</b> Adopted amendments to relax a 0% VOC limit to 40% VOC limit for aerosol antiperspirants	10/26/00
<b>Diesel risk reduction plan</b> Adopted plan to reduce toxic particulate from diesel engines through retrofits on existing engines, tighter standards for new engines, and cleaner diesel fuel.	9/28/00
<b>Conditional rice straw burning regulations</b> Adopted regulations to limit rice straw burning to fields with demonstrated disease rates reducing production by more than 5 percent	9/28/00
<b>Asbestos from unpaved roads</b> Tightened an existing Air Toxic Control Measure to prohibit the use of rock containing more than 0.25% asbestos on unpaved roads	7/20/00
<b>Architectural coatings</b> Approved amendments to replace mass-based VOC limits with reactivity-based limits, add a table of Maximum Incremental Reactivity values, add limits for polyolefin adhesion promoters, prohibit use of certain toxic solvents, and make other minor changes	6/22/00 5/1/01 EO
<b>Consumer products aerosol adhesives</b> Adopted amendments to delete a 25% VOC limit by 2002, add new VOC limits for six categories of adhesives, prohibit the use of toxic solvents, and add new labeling and reporting requirements	5/25/00 3/14/01 EO
<b>Automotive care products</b> Approved an Air Toxic Control Measure to eliminate use of perchloroethylene, methylene chloride, and trichloroethylene in automotive products such as brake cleaners and degreasers.	4/27/00 2/28/01 EO
<b>Enhanced vapor recovery emergency regulation</b> Adopted a four-year term for equipment certifications	5/22/01 EO
<b>Enhanced vapor recovery</b> Adopted amendments to require the addition of components to reduce spills and leakage, adapt to onboard vapor recovery systems, and continuously monitor system operation and report equipment leaks immediately	3/23/00 7/25/01 EO
<b>Agricultural burning smoke management</b> Adopted amendments to add marginal burn day designations, require day-specific burn authorizations by districts, and smoke management plans for larger prescribed burn projects	3/23/00 1/22/01 EO
<b>Urban transit buses</b> Adopted a public transit bus fleet rule and emissions standards for new urban buses that mandates a lower fleet-average NOx emission limit, PM retrofits, lower sulfur fuel use, and purchase of specified percentages of zero emission buses in future years	1/27/00 2/24/00 11/22/00 EO 5/29/01 EO
<b>Small Off-Road (diesel) Equipment (SORE)</b> Adopted amendments to conform with new federal requirements for lower and engine power-specific emission limits, and for the averaging, banking, and trading of emissions among SORE manufacturers	1/28/00
<b>CaRFG Phase 3 MTBE phase out</b> Adopted regulations to enable refiners to produce gasoline without MTBE while preserving the emissions benefits of Phase 2 cleaner burning gasoline	12/9/99 6/16/00 EO
<b>Consumer products – mid-term measures II</b> Adopted a regulation which adds emission limits for 2 new categories and tightens emission limits for 15 categories of consumer products	10/28/99
<b>Portable fuel cans</b> Adopted a regulation requiring that new portable fuel containers, used to refuel lawn and garden equipment, motorcycles, and watercraft, be spill-proof beginning in 2001	9/23/99 7/6/00 EO
<b>Clean fuels at service stations</b> Adopted amendments rescinding requirements applicable to SCAB in 1994-1995, modifying the formula for triggering requirements, and allowing the Executive Officer to make adjustments to the numbers of service stations required to provide clean fuels	7/22/99
<b>Gasoline vapor recovery</b> Adopted amendments to certification and test methods	6/24/99
<b>Reformulated gasoline oxygenate</b> Adopted amendments rescinding the requirement for wintertime oxygenate in gasoline sold in the Lake Tahoe Air Basin and requiring the statewide labeling of pumps dispensing gasoline containing MTBE	6/24/99
<b>Marine pleasurecraft</b> Adopted regulations to control emissions from spark-ignition marine engines, specifically, outboard marine engines and personal watercraft	12/11/98 2/17/00 EO 6/14/00 EO
<b>Voluntary accelerated light duty vehicle retirement</b> Adopted regulation setting standards for voluntary accelerated retirement program	12/10/98 10/22/99 EO

## Air Resources Board Control Measures, 1985-2015

Board Action	Hearing Date
<b>Off-highway recreational vehicles and engines</b> Approved amendments to allow non-complying vehicles to operate in certain seasons and in certain ORV-designated areas	12/10/98 10/22/99 EO
<b>On-road motorcycles</b> Amended on-road motorcycle regulations, to lower the tailpipe emission standards for ROG and NOx	12/10/98
<b>Portable equipment registration program (PERP)</b> Approved amendments to exclude non-dredging equipment operating in OCS areas and equipment emitting hazardous pollutants, include NSPS Part OOO rock crushers, require SCR emission limits and onshore emission offsets from dredging equipment operating in OCS areas, set catalyst emission limits for gasoline engines, and relieve certain retrofitted engines from periodic source testing	12/10/98
<b>Liquid petroleum gas motor fuel specifications</b> Approved amendment rescinding 5% propene limit and extending 10% limit indefinitely	12/11/98
<b>Reformulated gasoline</b> Approved amendments to rescind the RVP exemption for fuel with 10% ethanol and allow for oxygen contents up to 3.7% if the Predictive Model weighted emissions to not exceed original standards	12/11/98
<b>Consumer products</b> Adopted amendments to add new VOC test methods, to modify Method 310 to quantify low vapor pressure VOC (LVP-VOC) constituents, and to exempt LVP-VOC from VOC content limits	11/19/98
<b>Consumer products</b> Approved amendments to extend the 1999 VOC compliance deadline for several aerosol coatings, antiperspirants and deodorants, and other consumer products categories to 2002, to exempt methyl acetate from the VOC definition, and make other minor changes	11/19/98
<b>Low-emission vehicle program (LEV II)</b> Adopted regulations adding exhaust emission standards for most sport utility vehicles, pick-up trucks and mini-vans, lowering tailpipe standards for cars, further reducing evaporative emission standards, and providing additional means for generating zero-emission vehicle credits	11/5/98 9/17/99 EO
<b>Off-road engine aftermarket parts</b> Approved implementation of a new program to test and certify aftermarket parts in gasoline and diesel, light-duty through heavy duty, engines used in off-road vehicles and equipment	11/19/98 10/1/99 EO 7/18/00 EO
<b>Off-road spark ignition engines</b> Adopted new emission standards for small and large spark ignition engines for off-road equipment, a new engine certification program, an in-use compliance testing program, and a three-year phase-in for large LSI	10/22/98
<b>Gasoline deposit control additives</b> Adopted amendments to decertify pre-RFG additives, tighten the inlet valve deposit limits, add a combustion chamber deposit limit, and modify the test procedures to align with the characteristics of reformulated gasoline formulations	9/24/98 4/5/99 EO
<b>Stationary source test methods</b> Adopted amendments to stationary source test methods to align better with federal methods	8/27/98 7/2/99 EO
<b>Locomotive MOA for South Coast</b> Memorandum of agreement (MOA) signed by ARB, U.S. EPA, and major railroads to concentrate cleaner locomotives in the South Coast by 2010 and fulfill a 1994 ozone SIP commitment	7/2/98
<b>Gasoline vapor recovery</b> Adopted amendments to certification and test methods to add methods for onboard refueling vapor recovery, airport refuelers, and underground tank interconnections, and make minor changes to existing methods	5/21/98 8/27/98
<b>Reformulated gasoline</b> Approved amendments to rescind the wintertime oxygenate requirement, allow for sulfur content averaging, and make other minor technical amendments	8/27/98
<b>Ethylene oxide sterilizers</b> Adopted amendments to the ATCM to streamline source testing requirements, add EtO limits in water effluent from control devices, and make other minor changes	5/21/98
<b>Chrome platers</b> Adopted amendments to ATCM to harmonize with requirements of federal NESHAP standards for chrome plating and chromic acid anodizing facilities	5/21/98
<b>On-road heavy-duty vehicles</b> Approved amendments to align on-road heavy duty vehicle engine emission standards with EPA's 2004 standards and align certification, testing, maintenance, and durability requirements with those of EPA	4/23/98 2/26/99 EO
<b>Small off-road engines (SORE)</b> Approved amendments to grant a one-year delay in implementation, relaxation of emissions standards for non-handheld engines, emissions durability requirements, averaging/banking/trading, harmonization with the federal diesel engine regulation, and modifications to the production line testing requirements	3/26/98
<b>Heavy duty vehicle smoke inspection program</b> Adopted amendments to require annual smoke testing, set opacity limits, and exempt new vehicles from testing for the first four years	12/11/97 3/2/98 EO
<b>Consumer products (hairspray credit program)</b> Adopted standards for the granting of tradable emission reduction credits achieved by sales of hairspray products having VOC contents less than required limits	11/13/97

## Air Resources Board Control Measures, 1985-2015

Board Action	Hearing Date
<b>Light-duty vehicle off-cycle emissions</b> Adopted standards to control excess emissions from aggressive driving and air conditioner use in light duty vehicles and added two light duty vehicle test methods for certification of new vehicles under these standards	7/24/97 3/19/98 EO
<b>Consumer products</b> Adopted amendments to add VOC limits to 18 categories of consumer products used in residential and industrial cleaning, automobile maintenance, and commercial poisons	7/24/97
<b>Enhanced evaporative emissions standards</b> Adopted amendments extending the compliance date for ultra-small volume vehicle manufacturers by one year	5/22/97
<b>Emission reduction credit program</b> Adopted standards for District establishment of ERC programs including certification, banking, use limitation, and reporting requirements	5/22/97
<b>Lead as a toxic air contaminant</b> Adopted an amendment to designate inorganic lead as a toxic air contaminant	4/24/97
<b>Consumer products (hair spray)</b> Adopted amendments to (1) delay a January 1, 1998, compliance deadline to June 1, 1999, (2) require progress plans from manufacturers, and (3) authorize the Executive Officer to require VOC mitigation when granting variances from the June 1, 1999 deadline	3/27/97
<b>Portable engine registration program (PERP)</b> Adopted standards for (1) the permitting of portable engines by ARB and (2) District recognition and enforcement of permits	3/27/97
<b>Liquefied petroleum gas</b> Adopted amendments to extend the compliance deadline from January 1, 1997, to January 1, 1999, for the 5% propene limit in liquefied petroleum gas used in motor vehicles	3/27/97
<b>Onboard diagnostics, phase II</b> Adopted amendments to extend the phase-in of enhanced catalyst monitoring, modify misfire detection requirements, add PVC system and thermostat monitoring requirements, and require manufacturers to sell diagnostic tools and service information to repair shops	12/12/96
<b>Consumer products</b> Adopted amendments to delay 25% VOC compliance date for aerosol adhesives, clarify portions of the regulation, exempt perchloroethylene from VOC definition, extend the sell-through time to three years, and add perchloroethylene reporting requirements	11/21/96
<b>Consumer products (test method)</b> Adopted an amendment to add Method 310 for the testing of VOC content in consumer products	11/21/96
<b>Pollutant transport designation</b> Adopted amendments to modify transport couples from the Broader Sacramento area and add couples to the newly formed Mojave Desert and Salton Sea Air Basins	11/21/96
<b>Diesel fuel certification test methods</b> Approved amendments specifying the test methods used for quantifying the constituents of diesel fuel	10/24/96 6/4/97 EO
<b>Wintertime requirements for utility engines &amp; off-highway vehicles:</b> optional hydrocarbon and NOx standards for snowthrowers and ice augers, raising CO standard for specialty vehicles under 25hp	9/26/96
<b>Large off-road diesel Statement of Principles</b> National agreement between ARB, U.S. EPA, and engine manufacturers to reduce emissions from heavy-duty off-road diesel equipment four years earlier than expected in the 1994 SIP for ozone	9/13/96
<b>Regulatory improvement initiative</b> Rescinded two regulations relating to fuel testing in response to Executive Order W-127-95	5/30/96
<b>Zero emission vehicles</b> Adopted amendments to eliminate zero emission vehicle quotas between 1998 and 2002, and approved MOUs with seven automobile manufacturers to accelerate release of lower emission "49 state" vehicles	3/28/96 7/24/96 EO
<b>CaRFG variance requirements</b> Approved amendments to add a per gallon fee on non-compliant gasoline covered by a variance and to made administrative changes in variance processing and extension	1/25/96 2/5/96 EO 4/2/96 EO
<b>Utility and lawn and garden equipment engines</b> Adopted an amendment to relax the CO standard from 300 to 350 ppm for Class I and II utility engines	1/25/96
<b>National security exemption of military tactical vehicles:</b> such vehicles would not be required to adhere to exhaust emission standards	12/14/95
<b>CaRFG regulation amendments</b> Approved amendments to allow for downstream addition of oxygenates and expansion of compliance options for gasoline formulation	12/14/95
<b>Required additives in gasoline (deposit control additives):</b> terms, definitions, reporting requirements, and test procedures for compliance are to be clarified	11/16/95
<b>CaRFG test method amendments</b> Approved amendments to designate new test methods for benzene, aromatic hydrocarbon, olefin, and sulfur content of gasoline	10/26/95
<b>Motor vehicle inspection and maintenance program:</b> handled by BAR	10/19/95 by BAR

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<b>Antiperspirants and deodorants, consumer products, and aerosol coating products:</b> ethanol exemption for all products, modifications to aerosol special requirements, modifications for regulatory language consistency, modifications to VOC definition.	9/28/95
<b>Low emission vehicle (LEV III) standards:</b> reactivity adjustment factors, introduction of medium-duty ULEVs, window labels, and certification requirements and test procedures for LEVs	9/28/95
<b>Medium- and heavy-duty gasoline trucks</b> Expedited introduction of ultra-low emission medium-duty vehicles and lower NOx emission standards for heavy-duty gasoline trucks to fulfill a 1994 ozone SIP commitment	9/1/95
<b>Retrofit emission standards:</b> all vehicle classes to be included in the alternate durability test plan, kit manufacturers to be allowed two years to validate deterioration factors under the test plan, update retrofit procedures allowing manufacturers to disable specific OBDs if justified by law.	7/27/95
<b>Gasoline vapor recovery systems:</b> adopts revised certification and test procedures	6/29/95
<b>Onboard refueling vapor recovery standards:</b> 1998 and subsequent MY engine cars, LD trucks, and MD trucks less than 8500 GVWR	6/29/1995 4/24/96 EO
<b>Heavy duty vehicle exhaust emission standards for NOx:</b> amendments to standards and test procedures for 1985 and subsequent MY HD engines, amendments to emission control labels, amendments to Useful Life definition and HD engines and in-use vehicle recalls	6/29/95
<b>Aerosol coatings regulation</b> Adopted regulation to meet California Clean Air Act requirements and a 1994 ozone SIP commitment	3/23/95
<b>Periodic smoke inspection program:</b> delays start of PSIP from 1995 to 1996	12/8/94
<b>Onboard diagnostics phase II:</b> amendments to clarify reg language, ensure maximum effectiveness, and address manufacturer concerns regarding implementation.	12/8/94
<b>Alternative control plan (ACP) for consumer products:</b> a voluntary, market-based VOC emissions cap upon a grouping of consumer products, flexible by manufacturer, that will minimize overall costs of emission reduction methods and programs.	9/22/94
<b>Diesel fuel certification:</b> new specifications for diesel engine certification fuel, amended oxygen specification for CNG certification fuel, and amended commercial motor vehicle liquefied petroleum gas regulations.	9/22/94
<b>Utility and lawn and garden equipment (UGLE) engines:</b> modification to emission test procedures, ECLs, defects warranty, quality-audit testing, and new engine compliance testing.	7/28/94
<b>Evaporative emissions standards and test procedures</b> Adopted evaporative emissions standards for medium-duty vehicles	2/10/94
<b>Off-road recreational vehicles</b> Adopted emission control regulations for off-road motorcycles, all-terrain vehicles, go-karts, golf carts, and specialty vehicles	1/1/94
<b>Perchloroethylene from dry cleaners</b> Adopted measure to control perchloroethylene emissions from dry cleaning operations	10/1/93
<b>Wintertime oxygenate program:</b> amendments to the control time period for San Luis Obispo County, exemption for small retailers bordering Nevada, flexibility in gasoline delivery time, calibration of ethanol blending equipment, gasoline oxygen content test method	9/9/93
<b>Onboard diagnostic phase II</b>	7/9/93
<b>Urban transit buses</b> Amended regulation to tighten state NOx and particulate matter (PM) standards for urban transit buses beyond federal standards beginning in 1996	6/10/93
<b>1-year implementation delay in emission standards for utility engines</b>	4/8/93
<b>Non-ferrous metal melting</b> Adopted Air Toxic Control Measure for emissions of cadmium, arsenic, and nickel from non-ferrous metal melting operations	1/1/93
<b>Certifications requirements for low emission passenger cars, light-duty trucks &amp; medium duty vehicles</b>	1/14/93
<b>Airborne toxic control measure for emissions of toxic metals from non-ferrous metal melting</b>	12/10/92
<b>Periodic self-inspection program</b> Implemented state law establishing a periodic smoke self-inspection program for fleets operating heavy-duty diesel-powered vehicles	12/10/92
<b>Notice of general public interest for consumer products</b>	11/30/92
<b>Substitute fuel or clean fuel incorporated test procedures</b>	11/12/92
<b>New vehicle testing using CaRFG Phase 2 gasoline</b> Approved amendments to require the use of CaRFG Phase 2 gasoline in the certification of exhaust emissions in new vehicle testing	8/13/92

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Board Action	Hearing Date
<b>Standards and test procedures for alternative fuel retrofit systems</b>	5/14/92
<b>Alternative motor vehicle fuel certification fuel specification</b>	3/12/92
<b>Heavy-duty off-road diesel engines</b> Adopted the first exhaust emission standards and test procedures for heavy-duty off-road diesel engines beginning in 1996	1/9/92
<b>Consumer Products - Tier II</b> Adopted Tier II of regulations to reduce emissions from consumer products	1/9/92
<b>Wintertime oxygen content of gasoline</b> Adopted regulation requiring the addition of oxygenates to gasoline during winter to satisfy federal Clean Air Act mandates for CO nonattainment areas	12/1/91
<b>CaRFG Phase 2</b> Adopted CaRFGPhase 2 specifications including lowering vapor pressure, reducing the sulfur, olefin, aromatic, and benzene content, and requiring the year-round addition of oxygenates to achieve reductions in ROG, NOx, CO, oxides of sulfur (SOx) and toxics	11/1/91
<b>Low emissions vehicles amendments revising reactivity adjust factor (RAF) provisions and adopting a RAF for M85 transitional low emission vehicles</b>	11/14/91
<b>Onboard diagnostic, phase II</b>	11/12/91
<b>Onboard diagnostics for light-duty trucks and light &amp; medium-duty motor vehicles</b>	9/12/91
<b>Utility and lawn &amp; garden equipment</b> Adopted first off-road mobile source controls under the California Clean Air Act regulating utility, lawn and garden equipment	12/1/90
<b>Control for abrasive blasting</b>	11/8/90
<b>Roadside smoke inspections of heavy-duty vehicles</b> Adopted regulations implementing state law requiring a roadside smoke inspection program for heavy-duty vehicles	11/8/90
<b>Consumer Products Tier I</b> Adopted Tier I of standards to reduce emissions from consumer products	10/11/90
<b>CaRFG Phase I</b> Adopted CaRFG Phase I reformulated gasoline regulations to phase-out leaded gasoline, reduce vapor pressure, and require deposit control additives	9/1/90
<b>Low-emission vehicle (LEV) and clean fuels</b> Adopted the landmark LEV/clean fuel regulations which called for the gradual introduction of cleaner cars in California. The regulations also provided a mechanism to ensure the availability of alternative fuels when a certain number of alternative fuel vehicles are sold	9/1/90
<b>Evaporative emissions from vehicles</b> Modified test procedure to include high temperatures (up to 105 F) and ensure that evaporative emission control systems function properly on hot days	8/9/90
<b>Dioxins from medical waste incinerators</b> Adopted Airborne Toxic Control Measure to reduce dioxin emissions from medical waste incinerators	7/1/90
<b>CA Clean Air Act guidance for permitting</b> Approved California Clean Air Act permitting program guidance for new and modified stationary sources in nonattainment areas	7/1/90
<b>Consumer products BAAQMD</b>	6/14/90
<b>Medium duty vehicle emission standards</b> Adopted three new categories of low emission MDVs, required minimum percentages of production, and established production credit and trading	6/14/90
<b>Medium-duty vehicles</b> Amended test procedures for medium-duty vehicles to require whole-vehicle testing instead of engine testing. This modification allowed enforcement of medium-duty vehicle standards through testing and recall	6/14/90
<b>Ethylene oxide sterilizers</b> Adopted Airborne Toxic Control Measure to reduce ethylene oxide emissions from sterilizers and aerators	5/10/90
<b>Asbestos in serpentine rock</b> Adopted Airborne Toxic Control Measure for asbestos-containing serpentine rock in surfacing applications	4/1/90
<b>Certification procedure for aftermarket parts</b>	2/8/90
<b>Antiperspirants and deodorants</b> Adopted first consumer products regulation, setting standards for antiperspirants and deodorants	11/1/89
<b>Residential woodstoves</b> Approved suggested control measure for the control of emissions from residential wood combustion	11/1/89
<b>On-Board Diagnostic Systems II</b> Adopted regulations to implement the second phase of on-board diagnostic requirements which alert drivers of cars, light-trucks and medium-duty vehicles when the emission control system is not functioning properly	9/1/89
<b>Cars and light-duty trucks</b> Adopted regulations to reduce ROG and CO emissions from cars and light trucks by 35 percent	6/1/89
<b>Architectural coatings</b> Approved a suggested control measure to reduce ROG emissions from architectural coatings	5/1/89

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Board Action	Hearing Date
<b>Chrome from cooling towers</b> Adopted Airborne Toxic Control Measure to reduce hexavalent chromium emissions from cooling towers	3/1/89
<b>Reformulated Diesel Fuel</b> Adopted regulations requiring the use of clean diesel fuel with lower sulfur and aromatic hydrocarbons beginning in 1993	11/1/88
<b>Vehicle Recall</b> Adopted regulations implementing a recall program which requires auto manufacturers to recall and fix vehicles with inadequate emission control systems (Vehicles are identified through in-use testing conducted by the ARB)	9/1/88
<b>Suggested control measure for oil sumps</b> Approved a suggested control measure to reduce emissions from sumps used in oil production operations	8/1/88
<b>Chrome platers</b> Adopted Airborne Toxic Control Measure to reduce emissions of hexavalent chromium emissions from chrome plating and chromic acid anodizing facilities	2/1/88
<b>Suggested control measure for boilers</b> Approved suggested control measure to reduce NOx emissions from industrial, institutional, and commercial boilers, steam generators and process heaters	9/1/87
<b>Benzene from service stations</b> Adopted Airborne Toxic Control Measure to reduce benzene emissions from retail gasoline service stations (Also known as Phase II vapor recovery)	7/1/87
<b>Agricultural burning guidelines</b> Amended existing guidelines to add provisions addressing wildland vegetation management	11/1/86
<b>Heavy-duty vehicle certification</b> Amended certification of heavy-duty diesel and gasoline-powered engines and vehicles to align with federal standards	4/1/86
<b>Cars and light-duty trucks</b> Adopted regulations reducing NOx emissions from passenger cars and light-duty trucks by 40 percent	4/1/86
<b>Sulfur in diesel fuel</b> Removed exemption for small volume diesel fuel refiners	6/1/85
<b>On-Board Diagnostics I</b> Adopted regulations requiring the use of on-board diagnostic systems on gasoline-powered vehicles to alert the driver when the emission control system is not functioning properly	4/1/85
<b>Suggested control measure for wood coatings</b> Approved a suggested control measure to reduce emissions from wood furniture and cabinet coating operations	3/1/85
<b>Suggested control measure for resin manufacturing</b> Approved a suggested control measure to reduce ROG emissions from resin manufacturing	1/1/85