

# School Bus Idling Implementation Report

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Public Meeting  
Fresno, California  
October 28, 2004

# Today's Presentation

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- **Background Information**
- **ATCM Requirements**
- **Implementation & Outreach**
- **Enforcement & Compliance**
- **Summary**

# Background

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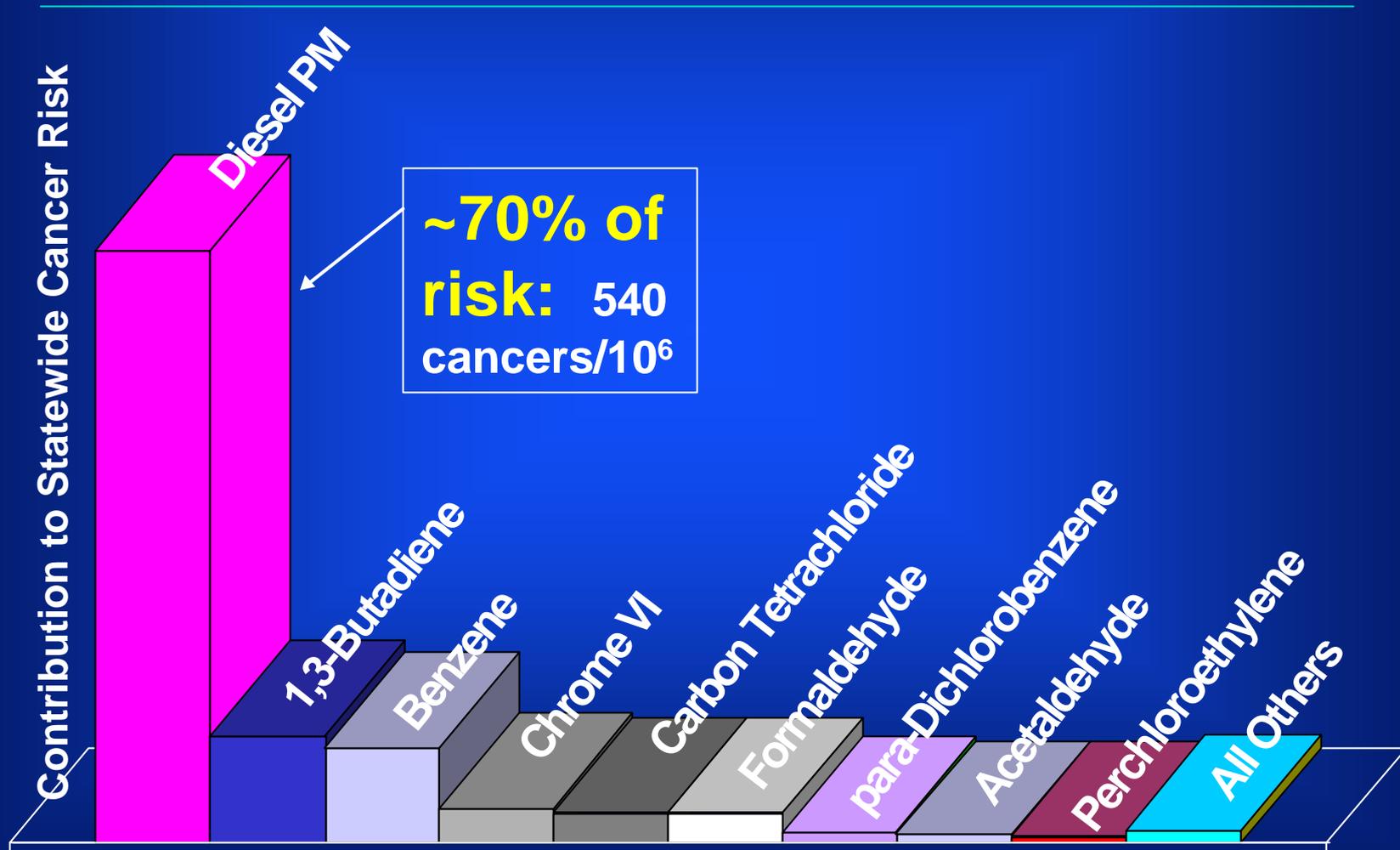
- **Toxic Air Contaminants (TACs) Exposure is a Significant Health Issue in CA**
- **In 1983 Two-Step Process to Address Potential Health Effects from TACs Established in State Law**
  - **First Step: Risk Assessment or Identification Phase**
  - **Second Step: Risk Management or Control Phase**

# Background

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- In August 1998, ARB Identified Diesel PM as a TAC. This Marked Completion of the Identification Phase
- Exposure to Diesel PM is a Health Hazard, Potential to Cause Cancer and Other Health Problems
- Children Whose Lungs are Still Developing and the Elderly are Particularly Susceptible

# Diesels Dominate Cancer Risk from Air Toxics



# Overall Health Impacts of Diesels in California

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- Annual health impacts
  - 2,900 premature deaths
  - 3,600 hospital admissions
  - 240,000 asthma attacks/respiratory symptoms
  - 600,000 lost days of work

# Over 1 Million Diesels in California

	Population 2000
Trucks	700,000
Off-road equipment	500,000
Stationary and portable	65,000

# Diesel Risk Reduction Plan

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- Established a goal
  - 75% reduction in diesel PM by 2010
  - 85% reduction in diesel PM by 2020
  - Additional NOx reductions
- Four main strategies
  - More stringent new engine standards
  - Assure in-use compliance
  - Cleaner diesel fuel; and alternative fuels
  - Cleanup of existing engines

# Adopted Rules

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- **Cleaner Diesel Fuel**
- **Verification Procedure**
- **Fleet Rule for Transit Agencies**
- **Solid Waste Collection Vehicle Rule**
- **Stationary Engine ATCM**
- **Truck Refrigeration Unit ATCM**
- **Portable Engine ATCM**
- **Idling ATCMs**
  - **School Bus**
  - **Heavy-Duty Diesel-Fueled Commercial**

# Future Rules

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- **Stationary Ag Engines**
- **Transit Fleet Vehicles (Non Urban Buses)**
- **Intrastate-Locomotive and Harbor Craft Fuel**
- **Cargo Handling Equipment (Port/Rail)**
- **Public/Private On Road Fleets**
- **Public/Private Off Road Fleets**
- **Harbor Craft**
- **Ocean Vessels**

# Airborne Toxic Control Measure to Limit School Bus Idling and Idling at Schools

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Approved at  
Public Meeting  
December 12, 2002



**AIR RESOURCES BOARD**



*California Environmental Protection Agency*

# **Requirements - Applicability**

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- **School Transportation**
  - **School Buses**
  - **School Pupil Activity Buses**
  - **Youth Buses**
  - **General Public Paratransit Buses**
- **Transit Buses**
- **Heavy-Duty Vehicles (Other than Buses)**

# Requirements - School Transportation Vehicles

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- At Schools or Within 100 Feet of Schools - Turn engine off upon arrival and restart no more than 30 seconds before departure
- At Locations Beyond 100 Feet of a School - Idling not to exceed more than 5 consecutive minutes at each stop

# Requirements - Transit Buses, Other Heavy-Duty Vehicles

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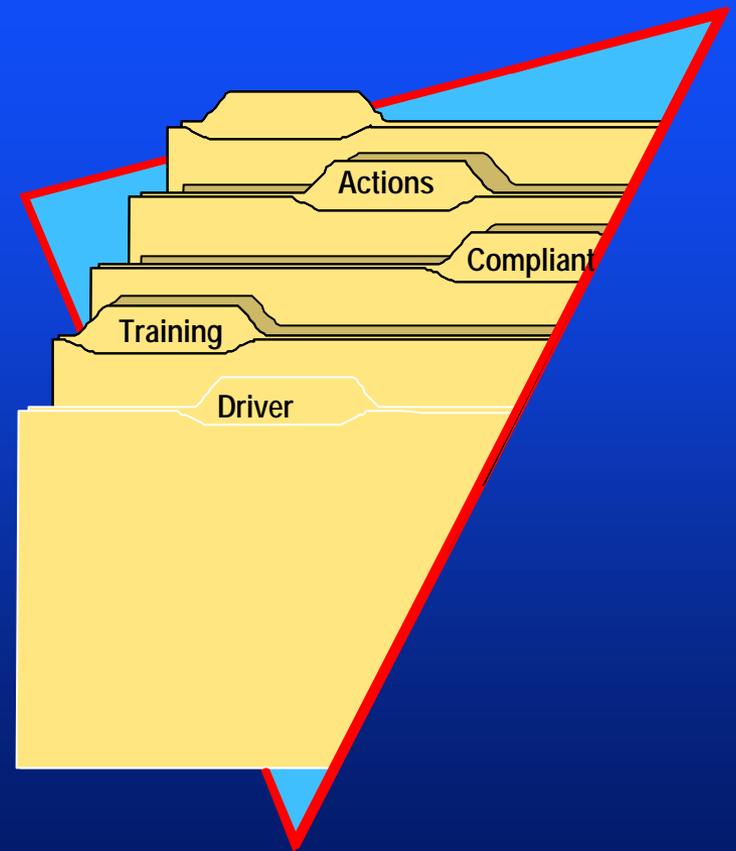
- At Schools - Turn engine off upon arrival and restart no more than 30 seconds before departure
- Within 100 Feet of Schools - No more than 5 minutes of idling



# Requirements - Training and Recordkeeping

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- Driver Training
- Complaint and Enforcement Action Tracking
- Recordkeeping



# Implementation and Outreach - ARB Activities

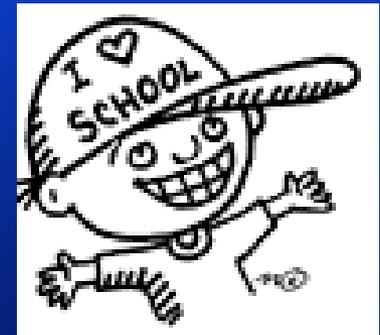
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- **Maintain and Update Program Website**
- **Expanded ARB's KnowZone Website for Kids**
- **Prepared Articles for Newsletters and Trade Magazines**
  - **California Parent-Teacher Association**
  - **CAPCOA Newsletter**
  - **California Bus Association**

# Outreach- ARB Activities

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- **Created and Distributed Outreach Materials**
  - Schools
  - School Districts
  - Air Districts
  - Commercial Motor Vehicles



# Training - ARB Activities

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- Assisted Department of Education with Instructor Curriculum for School Bus Drivers
- Assisted CHP with Questions for School Bus Driver Exams
- Incorporated ATCM Information into the Tampering Detection Course Currently offered to Peace Officers

# **Training - ARB Activities (cont'd)**

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- **30 In-Service Training Sessions for School Bus Drivers**
- **6 Presentations for School Bus Drivers and Others**
- **220 School Districts Visited**
- **183 School Transportation Offices Visited**
- **Statewide School District Survey**

# Related Activities

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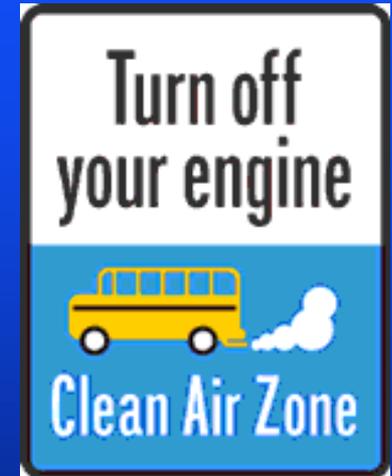
- Air Districts
- Other states - ATCM used as a model



# Enforcement and Compliance

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- **10 Complaints Received**
  - On-line Complaint Form
  - 1-800-END-SMOG
- **On-site Inspections**
  - More than 300 School Buses Spot Checked
  - No Violations
- **Enforcement Activities Ongoing**



# Findings

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- **Outreach to School Bus Drivers and Others Effective**
- **Minimal Complaints Have Been Received**
- **High Compliance Rate Found During Spot Inspections**

# Summary

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- ✓ **Enforcement Activities Show High Compliance Rate**
- ✓ **Reduced Exposure and Associated Cancer and Other Adverse Health Effects**
- ✓ **Continue to Monitor Compliance and Provide Outreach to Effected Drivers**