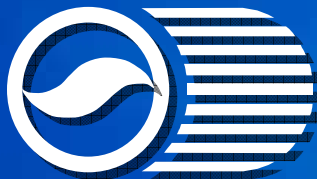


PROPOSED AMENDMENTS TO THE REGULATIONS APPLICABLE TO PORTABLE DIESEL ENGINES AND DIESEL ENGINES USED IN OFF-ROAD AND ON-ROAD VEHICLES



**January 28, 2010
Sacramento, CA**



California Environmental Protection Agency

Air Resources Board

Presentation Overview

- **Overview**
- **Background**
- **Proposed Amendments**
- **Future Actions**
- **Recommendations**

OVERVIEW



Today's Action

- **Provide a 1 year delay for replacing some older Tier 0 engines**
- **Move two-engine water well drilling rigs into the Off-Road Vehicle Regulation**
- **Include additional amendments to enhance implementation**
- **Provides temporary relief while retaining 70% of first year emission benefits**

BACKGROUND



Examples of Portable Engines

They are engines that are used to power...

generators

compressors

pumps

welders


dredges on boats or barges

various equipment units

tactical support equipment (TSE)



PERP Regulation

- 
- PERP established a registration program for portable engines and associated equipment units
 - Registered engines and equipment units allowed to operate Statewide without obtaining a permit in each District

Registration = Operating Permit

- Districts provide primary enforcement
- Adopted in 1997

PERP and Tier 0 Engines

- PERP Regulation originally required registered diesel Tier 0 engines to be removed from service
- Non-diesel Tier 0 engines registered in PERP also must be replaced



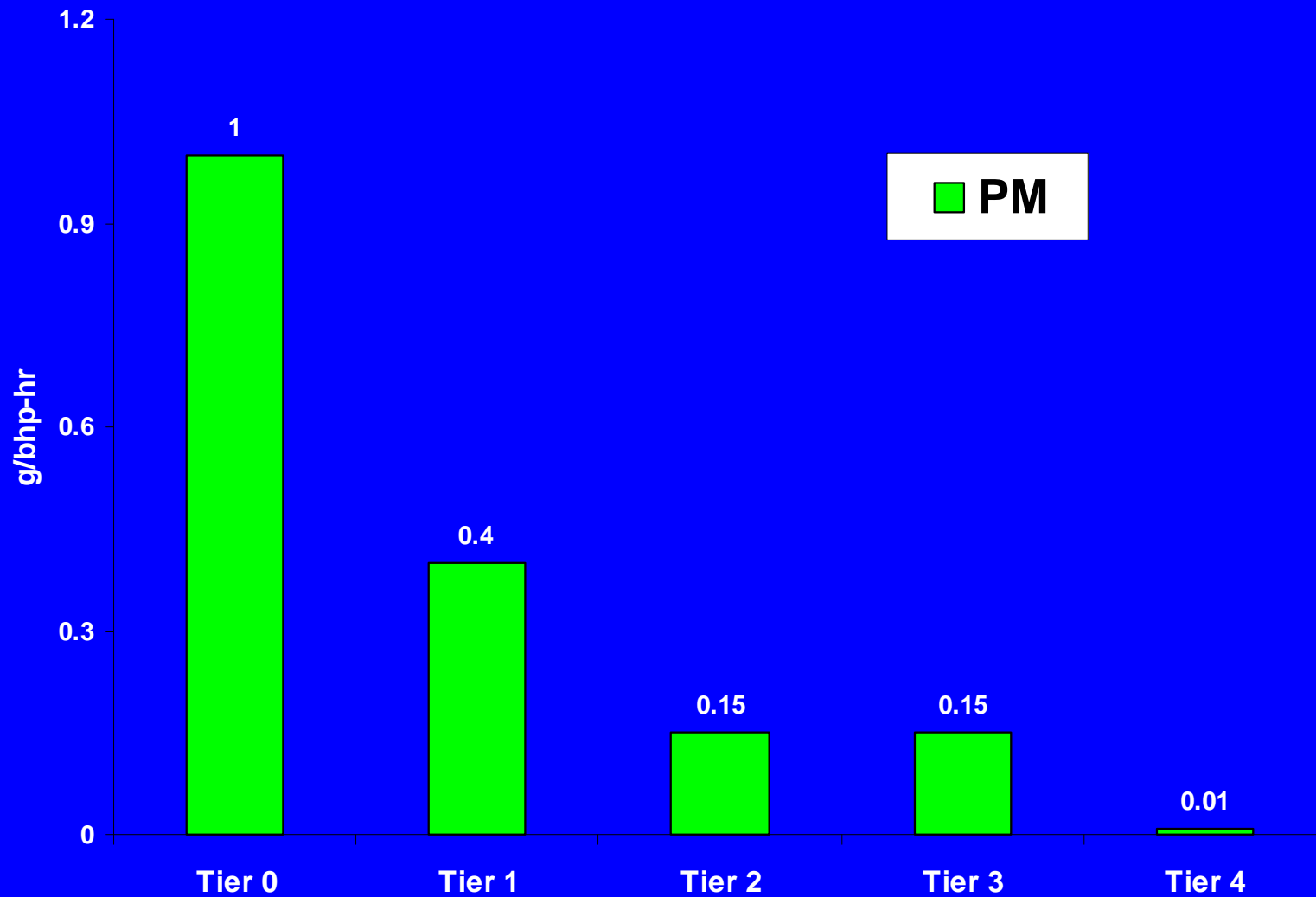
Portable Engine ATCM

- **Establishes PM emission standards**
 - **Requires replacement of older, higher-emitting, uncertified (Tier 0) engines by January 1, 2010**
 - **Sets requirements for newly permitted or registered engines**
 - **Imposes fleet PM emission standards effective in 2013, 2017, and 2020**
- **Adopted in 2004**
- **Differs from more recently adopted diesel vehicle regulations by requiring replacement of Tier 0 engines by a specific date**

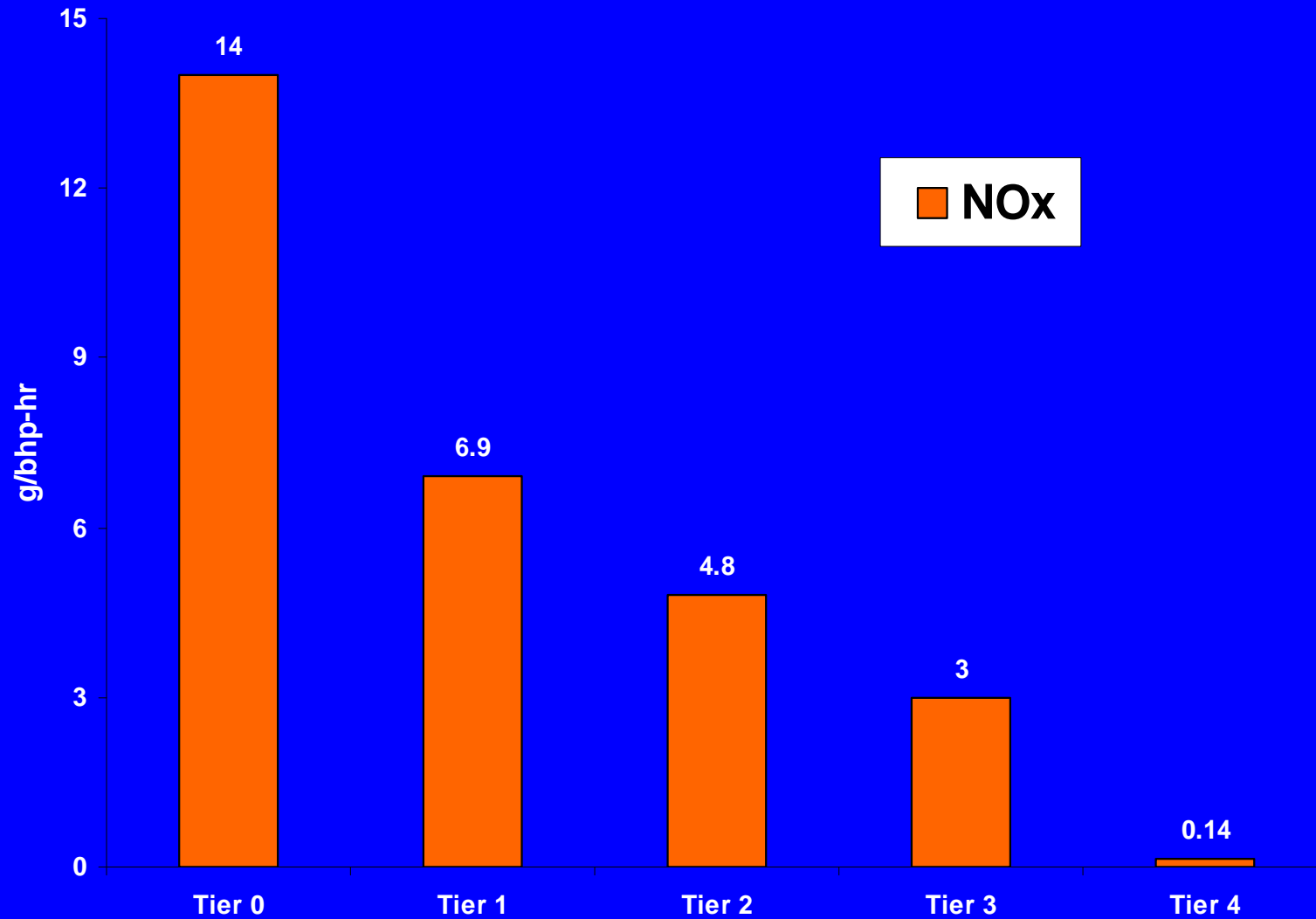
Why Replace Tier 0 Engines

- Replacing older, dirty engines is a key component to reducing emissions
- About 4,400 Tier 0 engines Statewide affected by this requirement
- Tier 0 engine emissions are significantly higher than certified engine emissions

PM Standards for Portable Engines



NOx Standards for Portable Engines



Diesel Vehicle Regulations

- **Regulation for in-use off-road diesel vehicle engines adopted in 2007 (Off-Road Regulation)**
 - **Off-Road Regulation also applies to all two-engine cranes**
- **Regulation for in-use on-road diesel vehicle engines adopted in 2008 (On-Road Regulation)**

PROPOSED AMENDMENTS

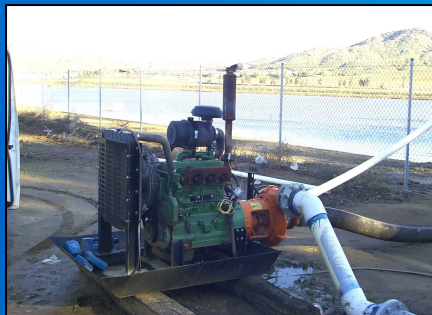


Proposed Amendments to the PERP Regulation and Portable ATCM

- **Uncertified (Tier 0) engine extension**
 - **Businesses or public agencies that have 25 or fewer portable engines**
 - **Select either one engine of any size, or up to 5 engines not to exceed 500 bhp**
 - **Operate until December 31, 2010**

Impacts of this Amendment

- **About 2,000 uncertified engines owned by 1,100 companies or public agencies may potentially qualify for extension**
- **Maintains approximately 70% of the original emission reductions; delay of 30% of benefit for 1 year only**



Additional Amendments to the PERP Regulation and Portable ATCM

- **Allow certified on-road engines that operate as portable engines to operate after January 1, 2010**
 - **Certified on-road are as clean as certified off-road engines**
- **Allow certified marine and on-road engines to be eligible for permit or registration**
 - **Currently only engines certified to off-road emission standards are eligible**
 - **Some marine engines and on-road engines used in portable operations**

Additional Amendments to the PERP Regulation and Portable ATCM

- **Certified engines registered in PERP no longer have to keep records of hours of use**
- **Specific location to be recorded on a monthly basis**
- **Remove vendor sales report from PERP regulation**
- **Minor wording changes for clarity**



Proposed Amendments to Off-Road and On-Road Vehicle Regulations

- **Water well drilling rigs face the same technical issues as two-engine cranes**
- **Currently water well drilling rigs with off-road engines are subject to both the Portable ATCM and On-Road Regulation**
- **Propose making water well drilling rigs subject to Off-Road Regulation**



FUTURE ACTIONS



Future Actions

- **Conduct outreach activities**
 - **Dedicated resources for handling public questions**
 - **Updated website**
 - **Informational flyers**
- **Accept applications for engines affected by the new requirements**

RECOMMENDATION



Recommendation

- **Adopt the proposed amendments**

