



# OVERVIEW - ON-ROAD ENGINES MITIGATION MEASURE TABLE

## Summary

This document provides an overview of the on-road engines table (Table IV) and how to use the information provided in the table. Additionally, a link is included to company contact information for specific on-road engine retrofit projects that have been achieved in practice.

## Table IV - Mitigation Measures: Level 1, 2 & 3 Retrofits for On-road Engines

Table IV (*Mitigation Measures: Level 1, 2 & 3 Retrofits for On-road Engines*) lists current California Air Resources Board (CARB) verified<sup>1</sup> on-road engine emission control technologies and corresponding emission reductions for specific achieved in practice projects. Table IV provides the following information organized by PM reduction level:

- Control technology
- Manufacturer & model number
- Emission source including links to CARB verified engine families
- Level specific emission reductions
- Link to the CARB executive order for each retrofit device
- Project/equipment type where engine retrofits have been achieved in practice
- Cost estimates of each retrofit device

Table IV can be used to determine emission reductions for the listed control technologies used on the approved on-road engine families. The CEQA practitioner can calculate emission reductions by applying the identified percentage reduction to the applicable uncontrolled pollutant emission rate.

As an example, a Level 3 device, which achieves at least an 85% or greater reduction in particulate matter, retrofitted on a baseline engine that emits 100 pounds per hour (lb/hr) PM, mitigates PM emissions by 85 lb/hr, and yields a retrofitted emission rate of 15 lb/hr PM.

Table IV can be downloaded directly from the following location:

<http://www.aqmd.gov/ceqa/handbook/mitigation/onroad/TableIV.doc>

## Company Contact Information

For additional information on the control measures achieved in practice, company contact information can be downloaded directly from the following location:

<http://www.aqmd.gov/ceqa/handbook/mitigation/AIPContact.pdf>

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<sup>1</sup> CARB periodically verifies additional retrofit technologies as part of its ongoing Diesel Emission Control Strategies Verification program. The most updated information is available at the following location:  
<http://www.arb.ca.gov/diesel/verdev/vt/cvt.htm>