

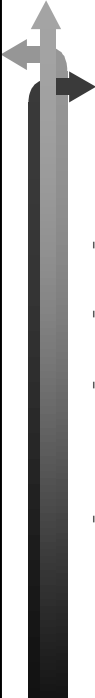
Assuring Low In-Use Emissions in California

Tom Cackette
CARB
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In-Use Testing Programs -- LDVs --

- New vehicle compliance-Title 13 (15 models/year)
- In-use compliance (Recall)
 - Recall testing (36 models/year)
 - Manufacturer testing (CAP 2000)
 - Early opt-in--11 manufacturers (7 partial)
- OBD compliance (51 models/year)

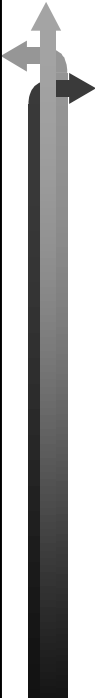





In-Use Testing Programs

-- LDVs (con't.) --


- Emission factors for inventory (~ 300 vehicles/year)
- I/M evaluation (2400 roadside pull-overs/year)
- Emission Warranty Reporting
 - 99 recalls -- 1.8 million vehicles since 1991
- Control device evaluation (20-40 tests/year)

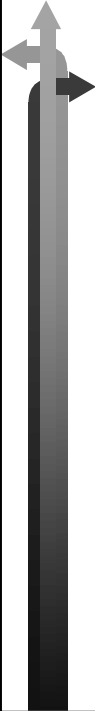


In-Use Testing Programs

HDT

- **ARB's Diesel Test Facility**
 - 45 vehicle/engine evaluations/year
- **Emission Factors**
- **Device Evaluation**
 - Engelhard DPX
 - Ceryx (lean burn & quad cat)
 - Johnson Matthey CRT
 - SCR technologies (future)
- **PM Trap Demonstrations**
 - Supports ARB's trap retrofit program





Needs Not Being Met

- ▢ Not enough HD truck testing
 - ▢ Emission factors
 - ▢ Recall
- ▢ No testing of off-road engines (Lawn and garden, jet skis, graders, tractors etc.)
 - ▢ Emission factors
 - ▢ Recall