

# Proposed Amendments to the Alternative Fuel Conversion Certification Procedures for On-Road Motor Vehicles and Engines



September 26, 2013

California Environmental Protection Agency

 **Air Resources Board**

# Alternative Fuel Conversions Program

- Applies to conversions of In-Use vehicles
  - Light and heavy-duty vehicles
  - Gasoline and diesel fuel based
- Certification requires
  - Emission & durability testing
  - OBD demonstration
  - Labeling
- Installation inspection
- Warranty coverage
- In-Use compliance requirements



# Industry Requests

- Streamline process
- Waive testing where feasible
- Reduce costs
- Harmonize with U.S. EPA Procedures
- Shorten time for approval
- Extend production period



# Worked Closely with Stakeholders



- Three public workshops
- Held technical workgroup meetings
- Joint evaluation of options
- Accommodated most requests
- No significant increase in emissions

# Summary of Proposed Changes

- Focuses on small volume conversion manufacturers
- Applies to 2004 and subsequent model years
- Harmonizes with U.S. EPA procedures where possible
- Preserves emission benefits
- Some provisions sunset with 2018 model year



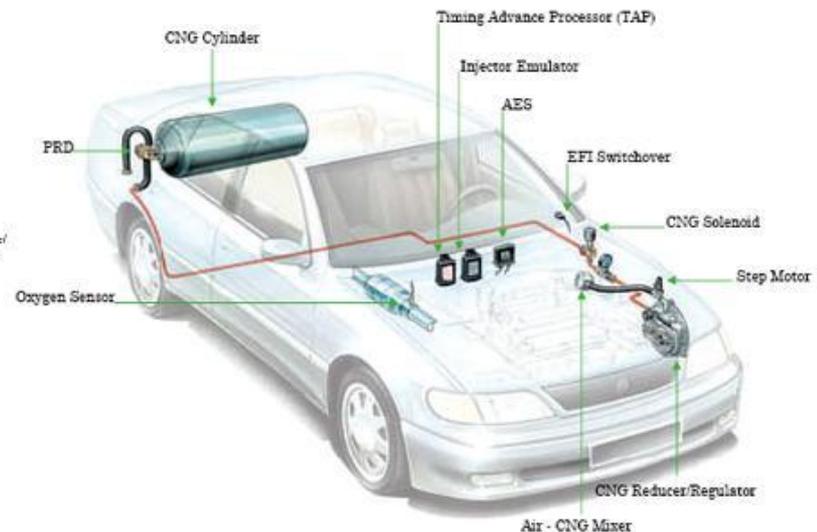
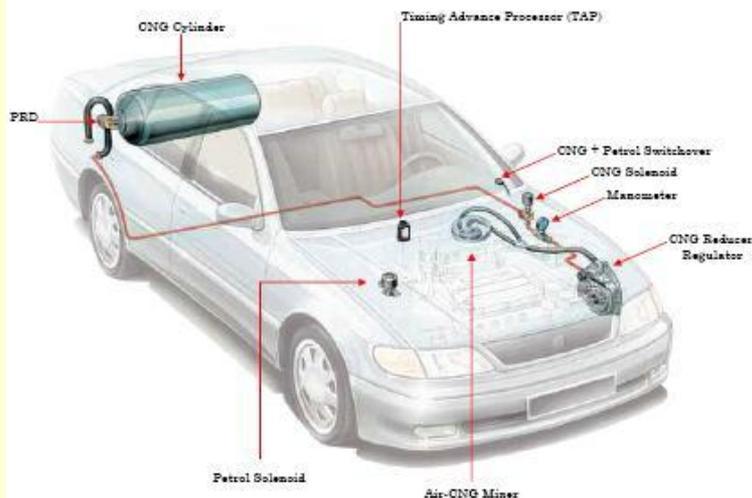
# Proposal Additional Details

- Streamlined application requirements
- Allows use of commercially available certification fuel
- Introduces testing flexibility and waives testing when appropriate



# Proposal Additional Details (Cont.)

- Use of assigned deterioration factors versus actual testing
- Streamlined OBD requirements
- Expedited aftermarket approval option when certifying as new vehicle



# Results of Proposal

- Cost of certification reduced by ~\$80,000
- Approval time reduced
- Product marketed sooner
- Reduced market barriers
- No significant risk in emission performance



# Recommendation

- Approve proposed changes
  - Adopt new test procedure
  - Modify definition of Small Volume Conversion Manufacturer from 1500 to 4500 units/year

