



Air Resources Board



Linda S. Adams
Secretary for
Environmental Protection

Mary D. Nichols, Chairman
9480 Telstar Avenue, Suite 4
El Monte, California 91731 www.arb.ca.gov

Arnold Schwarzenegger
Governor

May 29, 2009

Reference Number: CHC-2009-012

Mr. Scott Sadler
ISE Corporation
12302 Kerran Street
Poway, CA 92064

Dear Mr. Sadler:

This letter responds to ISE Corporation's (ISE) request for the Air Resources Board's (ARB or the Board) certification for a hydrogen fuel cell electric heavy-duty engine family, 9ISE00000F04. The vehicle model/chassis platform is FCH-150-86468, and is powered by a Ballard DC6 150 kW Proton Exchange Membrane (PEM) fuel cell. These heavy-duty electric vehicles are designed as urban buses and do not have any on-board fuel-fired heater or auxiliary power unit that emits any vehicle exhaust emissions or fuel-based evaporative emissions.

The ARB is required to certify all on-road vehicles. For zero-emission heavy-duty vehicles (HD-ZEV) with a gross vehicle weight rating (GVWR) above 14,000 pounds, the certification protocols and test procedures are under development. The ARB encourages ISE to participate in the regulatory process. In the interim before final approval of HD-ZEV certification protocols and test procedures by the Board, all heavy-duty electric vehicles or HD-ZEVs may be approved for sale in California based on manufacturer demonstration of no emissions. Based on the information submitted by ISE, the ARB considers vehicle models in engine family 9ISE00000F04 as meeting current heavy-duty engine/vehicle emission standards. With this approval, the listed vehicle model (Attachment) is legal for sale in California.

If you have additional questions regarding this matter, please contact Ms. Kimberly Pryor, Manager, Compression-Ignition and Heavy-Duty Certification Section, or Mr. Tsatsu Nukunya, Air Resources Engineer, at 626-350-6424 or tnukunya@arb.ca.gov.

Sincerely,


Annette Hebert, Chief
Mobile Sources Operations Division

Attachment

The energy challenge facing California is real. Every Californian needs to take immediate action to reduce energy consumption. For a list of simple ways you can reduce demand and cut your energy costs, see our website: <http://www.arb.ca.gov>.

California Environmental Protection Agency