

State of California  
AIR RESOURCES BOARD

EXECUTIVE ORDER D-717-1

Relating to Exemptions under  
Section 27156 of the Vehicle Code

NRG Logistics, LLC  
FuelSaver Hydrogen On-Demand System

Pursuant to the authority vested in the Air Resources Board by Section 27156 of the Vehicle Code; and

Pursuant to the authority vested in the undersigned by Sections 39515 and 39516 of the Health and Safety Code and Executive Order G-14-012;

IT IS ORDERED AND RESOLVED: That installation of the FuelSaver Hydrogen On-Demand System device, manufactured by NRG Logistics, LLC (1919 West 19<sup>th</sup> Street, Broadview, Illinois 60155), has been found not to reduce the effectiveness of the applicable vehicle pollution control systems, and therefore, the FuelSaver Hydrogen On-Demand System device is exempt from the prohibitions in Section 27156 of the Vehicle Code for all 1998-2009 model year light/medium/heavy heavy-duty on-road diesel engines between 5.0 liters to 15.0 liters.

The FuelSaver Hydrogen On-Demand System device, previously identified as the G2 Hydrogen On-Demand System, consists of a metal case containing a 5-gallon water reservoir, a dual cell electrolysis generator, various electrical components, electrical wiring and connectors, an electrolyte, and rubber supply hose for the hydrogen gas.

This Executive Order is granted based on previously conducted emission test results for Executive Order D-717 with the G2 Hydrogen On-Demand System device installed.

If evidence provides the Air Resources Board with reasons to suspect that the FuelSaver Hydrogen On-Demand System device will affect the durability of the emission control system, NRG Logistics, LLC. shall be required to submit durability data to show that the durability of the vehicle emission control system is not, in fact, affected and/or that the add-on or modified parts demonstrate adequate durability.

This Executive Order is valid provided that installation instructions for the FuelSaver Hydrogen On-Demand System device do not recommend tuning the vehicles to specifications different from those of the vehicle manufacturer.

Changes made to the design or operating conditions of the FuelSaver Hydrogen On-Demand System device, as exempt by the Air Resources Board, which adversely affect the performance of the vehicle's emission control system, shall invalidate this Executive Order.

Marketing of the FuelSaver Hydrogen On-Demand System device using identification other than that shown in this Executive Order or for an application other than that listed in this Executive Order shall be prohibited unless prior approval is obtained from the Air Resources Board.

Exemption of the FuelSaver Hydrogen On-Demand System device shall not be construed as exemption to sell, offer for sale, or advertise any component of the kit as an individual device.

This Executive Order shall not apply to any FuelSaver Hydrogen On-Demand System device advertised, offered for sale, sold with, or installed on a motor vehicle prior to or concurrent with transfer to an ultimate purchaser.

This Executive Order does not constitute any opinion as to the effect the use of the FuelSaver Hydrogen On-Demand System device may have on any warranty either expressed or implied by the vehicle manufacturer.

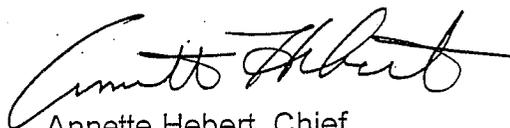
No claim of any kind, such as "Approved by the Air Resources Board," may be made with respect to the action taken herein in any advertising or other oral or written communication.

In addition to the foregoing, the Air Resources Board reserves the right in the future to review this Executive Order and the exemption provided herein to assure that the exempted add-on or modified part continues to meet the standards and procedures of California Code of Regulations, Title 13, Section 2222, et seq.

THIS EXECUTIVE ORDER DOES NOT CONSTITUTE A CERTIFICATION, ACCREDITATION, APPROVAL, OR ANY OTHER TYPE OF ENDORSEMENT BY THE AIR RESOURCES BOARD OF ANY CLAIMS OF THE APPLICANT CONCERNING ANTI-POLLUTION BENEFITS OR ANY ALLEGED BENEFITS OF NRG LOGISTICS, LLC.'S FUELSAVER HYDROGEN ON-DEMAND SYSTEM DEVICE.

Violation of any of the above conditions shall be grounds for revocation of this Executive Order. The Executive Order may be revoked only after a ten day written notice of intention to revoke the Executive Order, in which period the holder of the Executive Order may request in writing a hearing to contest the proposed revocation. If a hearing is requested, it shall be held within ten days of receipt of the request, and the Executive Order may not be revoked until a determination is made after the hearing that grounds for revocation exist.

Executed at El Monte, California, this 4 day of April 2014.



Annette Hebert, Chief  
Emissions Compliance, Automotive Regulations and Science Division

## EVALUATION SUMMARY

Manufacturer Name: NRG Logistics, LLC

Name of Device: FuelSaver Hydrogen On-Demand System

Background:

NRG Logistics, LLC of 1919 West 19<sup>th</sup> Street, Broadview, Illinois 60155 has applied for exemption from the prohibitions in Section 27156 of the California Vehicle Code for its FuelSaver Hydrogen On-Demand System device. The device is designed for all 1998-2009 model year (MY) light/medium/heavy heavy-duty on-road diesel engines between 5.0 liters to 15.0 liters. Issuing this Executive Order is in regards to NRG Logistics, LLC's request to change their device's name from G2 Hydrogen On-Demand System to FuelSaver Hydrogen On-Demand System. Several changes were also made to the system's design, see the three revised items below, to improve system durability and operation efficiency.

Recommendation:

Grant exemption to NRG Logistics, LLC as requested and issue Executive Order D-717-1.

Device Description:

The FuelSaver Hydrogen On-Demand System device produces hydrogen through an electrolysis process by supplying water from a reservoir containing distilled water and an activator (potassium hydroxide) to electrolysis dry cells containing stainless steel plates that are supplied electricity from the vehicle's battery. The device consists of a 5-gallon water reservoir, a dual cell electrolysis generator (which contain the positive, negative, and neutral metal plates), various electrical components, electrical wiring and connectors, and a rubber supply hose for the hydrogen gas. The device is connected to the vehicle's oil pressure circuit so that hydrogen gas is only produced when the engine is operating. The FuelSaver model is similar to the G2 model exempted under D-717, except for the following three items:

1. The three stage filter was changed from a rectangular shape to a tubular shape.
2. The reservoir pump was relocated from the top of the reservoir to the left hand wall of the enclosure.
3. The reservoir fill tube was relocated from the back of the enclosure to the front of the enclosure.

Discussion/Basis for the Recommendation:

Based on previous emission testing conducted for the issuance of D-717 and engineering evaluation, these changes should not have an impact on diesel engine emissions.