

Effective October 18, 2024, CARB issued an official notice to Global Emissions Systems Incorporated (GESi), to Cease and Desist marketing, selling, or installing ALL GESi 6000DPF Diesel Particulate Filter Systems (6000DPF Systems) as "CARB-Verified". Although the governing CARB Executive Order (EO) DE-11-002 previously covered the 6000DPF systems for engine families (model years 1996 through 2010) listed in the [EO attachment](#), that verification is not currently up to date. This notice will remain in effect until GESi demonstrates to CARB's satisfaction that its 6000DPF systems fully comply with the requirements specified in the In-Use Compliance Requirements of the Verification Procedure, Warranty, and In-Use Compliance Requirements for In-Use Strategies to Control Emissions from Diesel Engines (Verification Procedures) (Cal. Code Regs., tit. 13, § 2709). CARB staff will work with GESi in this regard under the process set forth in the Verification Procedures.

**State of California
AIR RESOURCES BOARD**

EXECUTIVE ORDER DE-11-002

Pursuant to the authority vested in the California Air Resources Board (ARB) by Health and Safety Code, Division 26, Part 5, Chapter 2; and pursuant to the authority vested in the undersigned by Health and Safety Code sections 39515 and 39616 and Executive Order G-02-003;

This action relates to Verification under sections 2700 through 2710 of title 13 of the California Code of Regulations:

Global Emissions Systems, Inc.
GESi 6000DPF[®] Diesel Particulate Filter System

ARB has reviewed the request by Global Emissions Systems, Inc. (GESi) for verification of the GESi[®] 6000DPF diesel particulate filter (DPF) System. Based on an evaluation of the data provided, and pursuant to the terms and conditions specified below, the Executive Officer of ARB hereby finds that the GESi[®] 6000DPF System reduces emissions of diesel particulate matter (PM) consistent with a Level 3 device (greater than or equal to 85 percent reductions) (California Code of Regulations (CCR), title 13, sections 2702 (f) and (g) and section 2708) and complies with the ARB January 1, 2009, NO₂ limit (CCR, title 13, section 2702 (f) and section 2706 (a)). Accordingly, the Executive Officer determines that the system merits verification and, subject to the terms and conditions specified below, classifies the GESi[®] 6000DPF System as a Level 3 Plus system, for use with stationary prime and emergency standby generators and prime and emergency standby pumps using engine families listed in Attachment 1.

This verification is subject to the following terms and conditions:

- The engine must be used in a stationary application associated with prime or emergency standby generators or pumps.
- The engines are model years 1996 or newer, certified to nonroad diesel engine emission standards Tier 1, Tier 2, or Tier 3, and having the engine family names listed in Attachment 1.
- The engine must be a certified off-road engine meeting 0.2 grams per brake horsepower (g/bhp-hr) diesel PM or less based on certification or in-use emissions testing (as tested on an appropriate steady-state certification cycle outlined in the ARB off-road regulations – similar to ISO 8178 D2).
- The engine must be in its original certified configuration.
- The engine must not employ exhaust gas recirculation.
- The engine must not have a pre-existing oxidation catalyst.
- The engine must not have a pre-existing diesel particulate filter.
- The engine must be four-stroke.
- The engine can be turbocharged or naturally-aspirated.

- The engine must be California certified.
- GESi must review actual operating conditions (duty cycle, baseline emissions, exhaust temperature profiles, and engine backpressure) prior to retrofitting an engine with the GESi® 6000DPF System to ensure compatibility.
- The engine should be well maintained and not consume lubricating oil at a rate greater than that specified by the engine manufacturer.
- The product must not be operated with fuel additives, as defined in section 2701 of title 13, of the CCR, unless explicitly verified for use with fuel additive(s).
- The product must not be used with any other systems or engine modifications without ARB and manufacturer approval.
- Other terms and conditions are specified below.

Table 1: Conditions for the GESi® 6000DPF System

Parameter	Value
Application	Stationary Prime and Emergency Standby Power Generation and Stationary Prime and Emergency Standby Pumping
Engine Type	Diesel, with or without turbocharger, without Exhaust-Gas Recirculation (EGR), mechanically or electronically controlled, certified off-road engines meeting 0.2 g/bhp-hr diesel PM or less based on certification or in-use emission testing.
Minimum Exhaust Temperature for Filter Regeneration	The engine must operate at the load level required to achieve 400 degrees Celsius (°C) for a minimum of 30 minutes. Operation at lower temperatures is allowed, but only for a limited duration, as specified below.
Maximum Consecutive Minutes Operating Below Passive Regeneration Temperature	300 Minutes
Number of Cold Start and 30 Minute Idle Sessions before Regeneration Required	10
Number of Hours of Operation Before Cleaning of Filter Required	2,000 when using diesel with <15 ppm sulfur.
Fuel	California diesel fuel with less than or equal to 15 ppm sulfur or a biodiesel blend provided that the biodiesel portion of the blend complies with ASTM International D6751 (15 ppm sulfur), the diesel portion of the blend complies with CCR, title 13, sections 2281 and 2282 and the blend contains no more than 20 percent biodiesel by volume.
PM Verification Level	Level 3 Plus Verification: <ul style="list-style-type: none"> • PM – at least 85% reduction • NO₂ – meets January 2009 limit

The GESi® 6000DPF System consists of a catalyzed passive DPF and a Dwyer Series AN2, backpressure monitor. A schematic of the approved label is shown in Attachment 2. Labels attached to the DPF and the engine must be identical (section 2706(j)).

This Executive Order is valid provided that installation instructions for the GESi® 6000DPF System do not recommend tuning the engine to specifications different from those of the engine manufacturer.

Prior to the sale of a GESi® 6000DPF System, GESi must provide each prospective owner/purchaser of the GESi® 6000DPF System with a written estimate of the number of hours of engine operation that will typically elapse before regeneration is required. GESi must also provide, in writing, the length of time of a typical regeneration event.

Changes made to the design or operating conditions of the GESi® 6000DPF System, as exempted by ARB, which adversely affect the performance of the engine's pollution control system, shall invalidate this Executive Order. As such, no changes are permitted to the device.

Changes to the GESi® 6000DPF System are not permitted without ARB approval. The ARB must be notified in writing of any changes to any part of the GESi® 6000DPF System. Any changes to the device must be evaluated and approved by ARB. Failure to do so shall invalidate this Executive Order.

Marketing of the GESi® 6000DPF System 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 ARB.

This Executive Order shall not apply to any GESi® 6000DPF System advertised, offered for sale, sold with, or installed on a new engine.

As specified in the Diesel Emission Control Strategy Verification Procedure (CCR, title 13, section 2706 (i)), the ARB assigns each Diesel Emission Control Strategy a family name. The designated family name for the verification as outlined above is:

CA/GES/2011/PM3+/N00/ST/DPF01

Additionally, as stated in the Diesel Emission Control Strategy Verification Procedure, GESi is responsible for recordkeeping requirements (CCR, title 13, section 2702), honoring the required warranty (section 2707) and conducting in-use compliance testing (section 2709).

This Executive Order is valid provided that the diesel fuel used in conjunction with the device complies with CCR, title 13, sections 2281 and 2282, and if biodiesel is used, the biodiesel blend shall be 20 percent or less subject to the following conditions:

- The biodiesel portion of the blend complies with the American Society for Testing and Materials International specification D6751 applicable for 15 parts per million sulfur content.
- The diesel fuel portion of the blend complies with CCR, title 13, sections 2281 and 2282.

Other alternative fuels such as, but not limited to, ethanol diesel blends and water emulsified diesel fuel are excluded from this Executive Order.

In addition, ARB reserves the right in the future to review this Executive Order and verification provided herein to assure that the verified add-on or modified part continues to meet the standards and procedures of CCR, title 13, section 2222, et seq and CCR, title 13, sections 2700 through 2710.

Systems verified under this Executive Order shall conform to all applicable California emissions regulations. This Executive Order does not release GESi from complying with all other applicable regulations.

Violation of any of the above conditions shall be grounds for revocation of this Executive Order.

Executed at Sacramento, California, this 30th day of June 2011.

James N. Goldstene
Executive Officer

by
/s/

Richard W. Corey, Chief
Stationary Source Division

- Attachment 1: Global Emissions Systems, Inc. GESi[®] 6000DPF System,
Off-Road Certified Engine Family List (0<=0.2 g/bhp-hr PM)
Attachment 2: Label for Global Emissions Systems, Inc. GESi[®] 6000DPF System