



Air Resources Board



Matthew Rodriquez
Secretary for
Environmental Protection

Mary D. Nichols, Chair
1001 I Street • P.O. Box 2815
Sacramento, California 95812 • www.arb.ca.gov

Edmund G. Brown Jr.
Governor

March 4, 2016

Mr. Farzan Roshdieh
Cummins Pacific, LLC
1939 Deere Avenue
Irvine, California 92887

Dear Mr. Roshdieh:

Using the *Verification Procedure, Warranty, and In-Use Compliance Requirements for In-Use Strategies to Control Emissions from Diesel Engines*, California Code of Regulations (CCR), title 13, sections 2700 through 2711, (Procedure), the Air Resources Board (ARB) has reviewed the Cummins Pacific, LLC's (Cummins) application for the verification of the eMission DPF titled, "ARB Verification Application," dated January 29, 2016. Based on the evaluation of the data provided, and pursuant to the terms and conditions specified below, ARB hereby finds that the eMission DPF reduces emissions of diesel particulate matter (PM) consistent with a Level 3 device (greater or equal to 85 percent PM reduction) (CCR, title 13, sections 2702 (f) and 2708)) and complies with the ARB January 1, 2009, nitrogen dioxide (NO₂) limit (CCR, title 13, section 2702 (f) and section 2706 (a)), allowing the Plus designation.

ARB also finds that the eMission DPF satisfactorily completed the 500 hours of durability demonstration, with associated emissions tests, required for stationary emergency standby generator application verification. Accordingly, ARB determines that the system merits verification, subject to the terms and conditions specified below and in the associated Executive Order (EO DE-16-001), and classifies the eMission DPF as a Level 3 Plus system for stationary emergency standby generator applications powered by certified Tier 2 off-road diesel engines with engine displacement between 23 and 78 liters. The Executive Order for the eMission DPF, which includes a list of applicable engine families for which the eMission DPF is verified, the verified parts list, and verification labels, is attached. This information and additional verification information can be found at <http://www.arb.ca.gov/diesel/verdev/vt/stationary.htm>.

The aforementioned verification is subject to the terms and conditions found in EO DE-16-001 and summarized below.

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

Summary of Conditions for the eMission DPF System	
Parameter	Value
Application	Stationary Emergency Standby Power Generation
Size Range	Diesel engines between 23 and 78 liters
Engine Type	Diesel, with or without turbocharger, without EGR, Tier 2, certified to 0.15 g/bhp-hr or less of PM.
Minimum Exhaust Temperature for Filter Regeneration	NA. Active regeneration with electronically heated exhaust.
Maximum Consecutive Minutes Operating Below Passive Regeneration Temperature	NA
Number of Cold Start and Idle Sessions before Regeneration Required	NA
Number of Hours of Operation Before Cleaning of Filter Required	Application Specific. 5500 Hours Typical.
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 D6751, the diesel portion of the blend complies with CCR, title 13, sections 2281 and 2282, and the blend contains no more than 20% biodiesel by volume
PM Verification Level	Level 3 Plus Verification: PM – at least 85% reduction NO2 – meets January 2009 limit

Since there may be significant variations from application to application, Cummins must review actual operating conditions (duty cycle, baseline emissions, engine backpressure, and ensure the engine does not consume lubricating oil at a rate greater than that specified by the engine manufacturer, and other pre-installation compatibility assessments as required in section 2706(t) of title 13, of the CCR) prior to retrofitting an engine with a eMission DPF to ensure compatibility. Cummins must ensure that the installation of the eMission DPF system conforms to all applicable industrial safety requirements. The product must not be used with any other systems or engine modifications without ARB and manufacturer approval.

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

CA/CMP/2016/PM3+/N00/ST/DPF01

This designated family name must be used in reference to this verification as part of the system labeling requirement. Labels attached to the eMission DPF and the engine must be identical.

Additionally, as stated in the Diesel Emission Control Strategy Verification Procedure, Cummins is responsible for honoring the record keeping requirements (CCR, title 13, section 2702), their warranty (CCR, title 13, section 2707), conducting in-use compliance testing (CCR, title 13, section 2709), and complying with the system labeling requirements (CCR, title 13, section 2706 (j)).

Violation of any of the above conditions, or other conditions specified in EO DE-16-001, shall be grounds for revocation of this verification and Executive Order.

Thank you for participating in ARB's diesel emission control strategy verification program. Should you have any questions or comments, please contact John Lee, Air Resources Engineer, at (916) 327-5975.

Sincerely,



Cynthia Marvin, Chief
Transportation and Toxics Division

Attachment

cc: John Lee
Air Resources Engineer
Control Strategies Section
Transportation and Toxics Division

