



Linda S. Adams  
Secretary for  
Environmental Protection

# Air Resources Board

Mary D. Nichols, Chairman  
1001 I Street • P.O. Box 2815  
Sacramento, California 95812 • [www.arb.ca.gov](http://www.arb.ca.gov)



Arnold Schwarzenegger  
Governor

March 12, 2009

Ms. Jessica M. Galassie  
Research & Development Manager  
MIRATECH Corporation  
4224 South 76<sup>th</sup> East Avenue  
Tulsa, Oklahoma 74145

Dear Ms. Galassie:

The Air Resources Board (ARB) has reviewed Miratech Emissions Solution's request for Plus designation of the Miratech Emissions Solution and HUG Engineering (Miratech and HUG) CombiKat<sup>®</sup> CBS diesel particulate trap (CombiKat<sup>®</sup> CBS), designated family name of **CA/MES/2005/PM3/N00/ST/DPF01**. Based on the evaluation of the data provided, ARB hereby verifies that the CombiKat<sup>®</sup> CBS meets the 20 percent nitrogen dioxide (NO<sub>2</sub>) emissions limit when in use in stationary emergency standby (E/S) and prime generators powered by Tier 1, Tier 2, or Tier 3 certified off-road engines meeting 0.2 grams per brake horse power hour (g/bhp-hr) diesel PM or less based on certification or in-use emissions testing. The executive order (EO DE-05-006-01) for the CombiKat<sup>®</sup> CBS, including a list of the applicable engine families, is enclosed. The Miratech and HUG CombiKat<sup>®</sup> CBS is verified as a Level 3 Plus diesel emission control device.

The new executive order also includes a change in the fuel description. The fuel description was modified to reflect the reduced sulfur level of CARB diesel and to allow the use of 20 percent biodiesel by volume provided that the biodiesel portion of the blend complies with ASTM D6751.

The new Miratech and HUG CombiKat<sup>®</sup> CBS designated family name is **CA/MES/2005/PM3+/N00/ST/DPF01**. Miratech and HUG must include the emission control strategy family name on all identification labels. The certified engine family list associated with the new emission control strategy family name, **CA/MES/2005/PM3+/N00/ST/DPF01**, is the same as that for the original emission control strategy family name, **CA/MES/2005/PM3/N00/ST/DPF01**, with the exception of an update to the present model year.

*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

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No changes are permitted to the system as described in the attached Executive Order DE-05-006-01. Any changes to the system, system components, applicable models, model years, etc. must be evaluated and approved by ARB.

Since there may be significant variations from application to application, Miratech and HUG must review actual operating conditions (duty cycle, baseline emissions, exhaust temperature profiles, and engine backpressure) prior to retrofitting an engine with the CombiKat<sup>®</sup> CBS to ensure compatibility.

Furthermore, the engine should be well maintained and not consume lubricating oil at a rate greater than that specified by the engine manufacturer.

Additionally, as stated in the Diesel Emission Control Strategy Verification Procedure, Miratech and HUG are responsible for honoring their warranty (Section 2707), conducting in-use compliance testing (Section 2709), and complying with the system labeling requirements (Section 2706(g)).

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

Sincerely,

/s/  
Robert D. Fletcher, Chief  
Stationary Source Division

Attachments

cc: John Lee, Air Resources Engineer  
Control Strategies Section, SSD