



Linda S. Adams
Secretary for
Environmental Protection

Air Resources Board

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



Arnold Schwarzenegger
Governor

July 30, 2009

Mr. Ken Bognar
Teleflex Ecotrans Technologies LP
3831 No. 6 Road
Richmond, B.C.
Canada V6V 1P6

Reference No. 09-661-087

Dear Mr. Ardekani:

Using the *Verification Procedure, Warranty and In-Use Compliance Requirements for In-Use Strategies to Control Emissions from Diesel Engines* (Procedure), Air Resources Board (ARB) staff reviewed your application for conditional verification of the Teleflex Clear Sky Diesel Particulate Filter (DPF) for use only with the Comfort Pro auxiliary power units (APU). Based on an evaluation of the data provided, and pursuant to the terms and conditions specified below, ARB hereby finds that the Teleflex Clear Sky DPF reduces emissions of diesel particulate matter (PM) consistent with a Level 3 plus device (greater than or equal to an 85 percent reduction and compliant with the 2009 nitrogen dioxide standard). ARB also finds that the Teleflex Clear Sky DPF satisfactorily completed at least 33 percent of the durability demonstration period for APU applications. Accordingly, ARB determines that the system merits conditional verification and, subject to the terms and conditions specified below, classifies the Teleflex Clear Sky DPF as a Level 3 plus system for Comfort Pro APU applications that use diesel engines from the engine families listed in Attachment 1.

The aforementioned conditional verification is subject to the following terms and conditions:

- The Teleflex Clear Sky DPF is conditionally verified until January 20, 2012.
- For the Teleflex Clear Sky DPF to be considered for full verification, Teleflex must complete all remaining requirements as specified in the letter 09-661-086 by January 20, 2012.
- Conditional verification is equivalent to verification for the purposes of satisfying the requirements of in-use emission control regulations.
- The verification is restricted to only those engine families and models listed in Attachment 1.
- The engine must be a Kubota Z482, model year 2005 through 2009.

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

- The engine must have a maximum power output rating of less than 11 horsepower.
- The application must be for Comfort Pro APU applications.
- The engine must be four-stroke.
- The engine must not employ exhaust gas recirculation.
- The engine must not have a pre-existing diesel particulate filter from the original equipment manufacturer.
- The engine can be mechanically or electronically controlled.
- The engine can be turbocharged or naturally aspirated.
- The engine must be well maintained and not consume lubricating oil at a rate greater than that specified by the engine manufacturer.
- Lubricating oil, or other oil, must not be mixed with the fuel.
- The product must not be operated with fuel additives, as defined in section 2701 of Title 13, of the California Code of Regulations (CCR), unless explicitly verified for use with the fuel additive(s).
- The product must not be used with any other systems or engine modifications without ARB and manufacturer written approval.
- The other terms and conditions specified below.

It is also ordered and resolved that installation of the Teleflex Clear Sky DPF has been found not to reduce the effectiveness of the applicable vehicle pollution control systems, and therefore, the Teleflex Clear Sky DPF is exempt from the prohibitions in section 27156 of the Vehicle Code for installation on off-road equipment using engines from the families listed in Attachment 1.

This exemption is only valid provided the engines meet the aforementioned conditions.

ARB reserves the right in the future to review this conditional verification letter and the exemption provided herein to assure that the exempted and conditionally verified add-on or modified part continues to meet the standards and procedures of Title 13, sections 2222, et seq and sections 2700 through 2710, of the CCR.

The Teleflex Clear Sky DPF consists of a diesel particulate filter, a heating element, a backpressure monitor and a remote display module. The major components of the Teleflex Clear Sky DPF are identified in Attachment 2. Schematics of the approved product and engine labels are shown in Attachment 3.

No changes are permitted to the device. ARB must be notified, in writing, of any changes to any part of the Teleflex Clear Sky DPF. Any changes to the device must be evaluated and approved in writing by ARB. Failure to do so shall invalidate this conditional verification.

Changes made to the design or operating conditions of the Teleflex Clear Sky DPF, as exempted by ARB, which adversely affect the performance of the vehicle's pollution control system, shall invalidate this conditional verification.

Marketing of the Teleflex Clear Sky DPF using identification other than that shown in this conditional verification letter or for an application other than that listed in this conditional verification letter shall be prohibited unless prior written approval is obtained from ARB.

Identification must include both device and engine labels consistent with the requirements of the Procedure (Section 2706) and Attachment 3 of this conditional verification letter. Changes or modifications to the label placement are prohibited without prior written approval from ARB.

ARB estimates that the usage of the Teleflex Clear Sky DPF could incur a fuel economy penalty of up to five percent depending on the application.

As specified in the Procedure, ARB assigns each diesel emission control strategy a family name. The designated family name for the conditional verification as outlined above is:

CA/TET/2008/PM3+/N00/OF/DPF01

Additionally, as stated in the Procedure, Teleflex is responsible for recordkeeping requirements (Section 2702), honoring the required warranty (Section 2707), and conducting in-use compliance testing (Section 2709).

This conditional verification is valid provided that the diesel fuel used in conjunction with the device complies with Title 13, CCR, 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 specification D6751 applicable for 15 ppm sulfur content; and
- The diesel fuel portion of the blend complies with Title 13, CCR, sections 2281 and 2282.

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

Mr. Ken Bognar
July 30, 2009
Page 4

Systems conditionally verified in this letter shall conform to all applicable California emissions regulations.

This conditional verification does not release Teleflex from complying with all other applicable regulations.

Violation of any of the above conditions shall be grounds for revocation of this conditional verification.

This conditional verification (reference number 09-661-087) is effective as of this 30th day of July, 2009.

This conditional verification reference number 09-661-087 hereby supersedes the conditional verification reference number 08-661-363 dated January 20, 2009.

Thank you for participating in ARB's diesel emission control strategy verification program. If you have any questions or comments, please contact Ms. Shawn Daley, Manager, at (626) 575-6972 or by email to sdaley@arb.ca.gov.

Sincerely,

/s/

Robert H. Cross, Chief
Mobile Source Control Division

Attachment 1: ARB-Approved Engine Families for the Teleflex Clear Sky DPF
Attachment 3: Label for the Teleflex Clear Sky DPF