Mr. Kevin Brown  
Marketing & Regulatory Affairs Manager  
Engine Control Systems Limited  
83 Commerce Valley Drive East  
Thornhill, Ontario  
Canada, L3T 7T3  

Dear Mr. Brown:

The U.S. Environmental Protection Agency (EPA) has reviewed your request for verification of the Engine Control Systems (ECS) Purifilter Plus diesel particulate filter system. This technology incorporates a catalyzed silicon carbide wall-flow filter with both passive and active regeneration capabilities. The Purifilter Plus system includes the diesel particulate filter with electric heating elements, an electronic logger to monitor exhaust backpressure and temperature, and a regeneration panel that may be shared among other vehicles with Purifilter Plus systems. Based on our evaluation of the verification application and test data, EPA hereby verifies that this technology reduces emissions of certain criteria pollutants by the percentages shown in the table. In addition, EPA verifies that this product meets the 2009 NOx emission limits. This verification is for the purposes of EPA's National Clean Diesel Campaign.

This technology combination is approved for use on the following categories of engines and/or vehicles, provided all of the required operating criteria are met as described below:

All 4-cycle; Urban Bus; highway; light-, medium-, and heavy- heavy duty diesel engines including turbo-charged or naturally aspirated, mechanically or electronically injected, non-EGR and originally manufactured from 1994 through 2006 model years.

<table>
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<tr>
<th>Technology</th>
<th>Fuel (sulfur content)</th>
<th>Particulate Matter (PM) %</th>
<th>Carbon Monoxide (CO) %</th>
<th>Hydrocarbons (HC) %</th>
<th>Oxide of Nitrogen (NOx) %</th>
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<td>Purifilter Plus (Diesel particulate filter on the engine, electrical panel for active regeneration at the garage/maintenance yard)</td>
<td>≤ 15 ppm</td>
<td>90</td>
<td>75</td>
<td>85</td>
<td>n/a</td>
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The following criteria must be met in order for appropriately retrofitted engines to achieve the aforementioned emissions reductions:

1. As there may be variations from application to application, data-logging and a review of actual vehicle operating conditions is required to ensure Purifilter Plus compatibility. ECS will provide a recommended schedule for active regeneration of the device.

2. In most applications, the Purifilter Plus must be periodically actively regenerated with the off-board regeneration control panel. The frequency of active regeneration will vary based on vehicle use or other conditions.

3. The engine should be well maintained and not consume lubricating oil at a rate greater than that specified by the engine manufacturer. Lubricating oil may not be mixed with engine fuel with this technology.

4. ECS installs the Back-Pressure Monitor and Logger unit and the Remote Driver Display on all vehicles equipped with a Purifilter Plus.

5. The engine must be operated with a fuel that contains a sulfur content of no more than 15 parts per million (ppm).

Information on the Purifilter Plus technology, percent reductions, applicable engines, and in-use testing program will be posted on the EPA’s National Clean Diesel Campaign/Diesel Retrofit Verification website (http://www.epa.gov/retrofit/verif-list.htm). As you know, ECS will be responsible for completing the required in-use testing program and for submitting all in-use testing data to EPA.

Thank you for participating in EPA’s National Clean Diesel Campaign. If you have any questions or comments, please contact Carl Wick, of my staff, at 202-343-9331.

Sincerely,

Jim Blubaugh, Manager
Innovative Strategies Group
Office of Transportation and Air Quality