



**Linda S. Adams**  
Secretary for  
Environmental

# Air Resources Board

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**Arnold Schwarzenegger**  
Governor

August 23, 2006

Mr. Peter J. Lawson, Product Manager  
North American Freight Locomotives  
General Electric Company  
East Lake Road, Building 14-4  
Erie, Pennsylvania 16531-0001

Dear Mr. Lawson:

This letter is in reply to your August 10, 2006 request that we recognize the SmartBurn<sup>TM</sup> validation emission test results for General Electric Company locomotives, using engine family 6GETG0958EFB. The U.S. Environmental Protection Agency (U.S. EPA) issued a certificate of conformity, GET-LOC-06-01, for this engine family dated December 2, 2005. This certification states that engine family 6GETG0958EFB conforms to applicable requirements for locomotives listed in Title 40 Code of Federal Regulations Part 92 (40 CFR 92).

As you know, in 1998, the BNSF Railway Company and Union Pacific Railroad Company (Participating Railroad), along with the Air Resources Board entered into a Memorandum of Mutual Understandings and Agreements<sup>1</sup> (1998 MOU) to reduce locomotive emissions in the South Coast Air Basin. Under the 1998 MOU, beginning no later than 2010, each Participating Railroad must calculate the fleet average for oxides of nitrogen (NOx) emissions from its locomotive fleet operating in the South Coast Air Basin. The fleet average is calculated using the emission level, as determined pursuant to 40 CFR 92 for the line-haul duty cycle, for each locomotive in operation in the South Coast Nonattainment Area.

Based on the U.S. EPA certificate of conformity, NRE-LOC-06-01 and the SmartBurn<sup>TM</sup> validation emission test results submitted, we recognize that engine family 6GETG0958EFB has a line-haul NOx emission level of 3.75 g/bhp-hr when operated under the engine parameters defined as SmartBurn<sup>TM</sup>.

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<sup>1</sup> MEMORANDUM OF MUTUAL UNDERSTANDINGS AND AGREEMENTS, South Coast Locomotive Fleet Average Emissions Program, July 2, 1998

*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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This emission level can be used in calculating the average NOx emissions for a locomotive fleet operating in the South Coast Air Basin. The emission level listed in this letter will be superseded if U.S. EPA revises the certificate of conformity referenced in this letter.

If you have any questions on this issue please contact Mr. Harold Holmes, Manager, Engineering Evaluation Section, at (916) 324-8029, or at [holmes@arb.ca.gov](mailto:holmes@arb.ca.gov).

Sincerely,

/s/ by DCS

Dean C. Simeroth, Chief  
Criteria Pollutants Branch

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Mr. Harold Holmes, Manager  
Engineering Evaluation Section