

September 1, 2020

Mr. Budhadeb (Buddy) Mahakul  
Manager Emission Compliance  
Progress Rail Locomotive Inc. (EMD)  
9301 W. 55th Street  
LaGrange, Illinois 60565

Dear Mr. Mahakul:

This letter responds to the Progress Rail Locomotive Inc. (EMD) request for a California Air Resources Board (CARB) locomotive verification for the Tier 4 Progress Rail Locomotive F125 passenger locomotive (EMD F125 Locomotive). CARB verifies that the F125 passenger locomotive achieves U.S. EPA Tier 4 locomotive exhaust emission levels. This verification is applicable to the F125 passenger locomotive.

The EMD F125 locomotive is powered with a Caterpillar 20 cylinder C175 diesel engine that is equipped with a urea based Selective Catalytic Reduction aftertreatment system meeting US EPA Tier 4 line haul standards.

The test SACX 907 passenger locomotive accumulated 12,058 in-use hours operating with Metrolink, which is a Commuter Rail System for passenger transportation in Southern California. West Virginia University Center for Alternative Fuels Engines and Emissions performed all emission tests during this in-use field demonstration. In addition, EMD obtained a U.S. EPA Tier 4 Certificate of Conformity in November 2018 (Engine family name: KEMDG5.29SC1). For the most current EPA Certificate of Conformity, please see the EPA web site at <https://iaspub.epa.gov/otaqpub/>.

Based on CARB staff evaluation of the application, exhaust emission data, and additional information provided, CARB staff hereby verifies that this locomotive configuration and technology achieves U.S. EPA Tier 4 line haul NO<sub>x</sub>, PM, CO, and HC exhaust emission levels.

Mr. Budhadeb (Buddy) Mahakul  
September 1, 2020  
Page 2

If you have any questions or comments, please email Ajay Mangat, Manager, Freight Systems Section at [ajay.mangat@arb.ca.gov](mailto:ajay.mangat@arb.ca.gov) or Mike Jaczola, Staff Air Pollution Specialist, Freight Approvals Section at [michael.jaczola@arb.ca.gov](mailto:michael.jaczola@arb.ca.gov).

Sincerely,



Heather Arias, Chief  
Transportation and Toxics Division

cc: Dennis Johnson, Director  
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