



Carl Moyer Memorial Air Quality Standards Attainment Program

Locomotive Project Fact Sheet

What is the Carl Moyer Program?

The Carl Moyer Memorial Air Quality Standards Attainment Program (Carl Moyer Program) is a state-funded program that offers grants to owners of heavy-duty vehicles and equipment to reduce air pollution emissions from heavy-duty engines. To apply visit www.baaqmd.gov/moyer

What types of locomotive projects are eligible for grants?

Grants are available for the following locomotive project types: 1.) Alternative technology switcher (or other cleaner-than-required new locomotive), 2.) Idle-limiting device (ILD), 3.) U.S. EPA certified engine remanufacture kit or repower/refurbishment, 4.) CARB-verified retrofit, and 5.) Head end power unit (HEP) replacement (on a case-by-case basis).

Who can apply?

Projects involving Class 1 and Class 2 locomotives may be eligible for funding on a case-by-case basis. Projects involving Class 3 locomotives, military, industrial, or passenger locomotives are eligible for funding. The Air District is accepting applications for projects throughout its jurisdiction, but will prioritize projects that reduce emissions in the following nine impacted communities:

- 1) Concord, 2) Richmond/San Pablo, 3) Western Alameda County, 4) San Jose, 5) Livermore, 6) Eastern San Francisco, 7) San Rafael, 8) Vallejo, and 9) Antioch/ Pittsburg.

A Priority Community Map of highly impacted communities in the Bay Area can be found at <http://www.baaqmd.gov/moyer>.

The following counties are part of the Air District’s jurisdiction: Alameda, Contra Costa, Marin, San Mateo, San Francisco, Santa Clara, and Napa counties. The southern portions of Solano and Sonoma counties are also part of the Air District.

How much funding is available for locomotive projects?

Table 1 below summarizes the maximum eligible funding for each project type. All projects are also subject to the cost-effectiveness threshold of \$17,720 per weighted ton of emissions reduced.

Table 1: Maximum Grant Funding for Carl Moyer Program Locomotive Projects

Railroad Class/Type	Alternative Technology Switcher	Idle Limiting Device (ILD)	Refurbishment or Certified Remanufacture Kit
Class 1	50%	not eligible	50%
Class 3, Passenger, Military, and Industrial	85%	50 percent (passenger locomotives on case-by-case basis)	Tier 0+: 75%* Tier 1+: 80%* Tier 2+: 85%*

* “+” is used to refer to the new U.S. EPA locomotive engine remanufacture standards (U.S. EPA, 2008)

How do I know what regulations apply to my locomotive?

The United States Environmental Protection Agency (EPA) has the authority to pass and enforce regulations for locomotive engine emission standards. In addition, ARB has passed Requirements for Intrastate Locomotive Fuel Use and there is a Memorandum of Understanding (MOU) signed in 2005 with operators in the state called the “Statewide Rail Yard Agreement to Reduce Diesel PM at California Rail Yards” (the “Statewide MOU”). To read about existing and upcoming regulations and MOUs governing locomotives see the links listed in Table 2.

Table 2: Locomotive regulations & MOUs

Regulations and MOUs	Webpage Information Link
Federal emission standards for new locomotives and new engines used in locomotives.	http://www.epa.gov/otaq/locomotives.htm
State rules for fuel and MOUs	http://www.arb.ca.gov/msprog/offroad/loco/loco.htm

My locomotive engine is subject to a regulation or MOU to reduce emissions, am I eligible for a grant?

Grants cannot be used for projects that are required by law or by a contract or agreement; however, they can be applied to projects that comply at least three years in advance of regulations. For example, if a regulation requires that an engine's emissions be reduced by 2018, grants can be awarded to reduce those emissions as long as the funded equipment is operational by 2015. Here are specific examples:

- Under the Statewide MOU both Union Pacific and BNSF are required to add ILD devices, these operators are not eligible for Carl Moyer Program grants for this project type.
- Locomotive operators utilizing an alternative emission control plan (AECp) to comply with California's locomotive low-sulfur diesel fuel requirements are not eligible for Carl Moyer Program funds.
- If a Class I or Class II railroad is subject to federal emissions standards, these locomotives may be eligible to apply for grants to exceed the required Tier requirements. For example, if a Tier 1 is required, grants may be available to contribute to a project that meets the Tier 2 or higher standard.
- Class III railroads, including military and industrial railroads, are generally exempt from federal standards. These railroads are eligible to apply for Carl Moyer Program funding.

What other information should I know about the grants for locomotive engines?

- The application requires that you submit information about your existing engine (model year, serial number, engine tier, horsepower, and fuel consumption) and information about the replacement engine or equipment (quotes from your engine dealer for prices, engine tier, and engine horsepower).
- All locomotive purchase and repower projects must include installation of an automatic engine start-stop idle reduction device if technically feasible.
- The application requires documentation that you carry general liability and workers compensation insurance and machinery insurance equal to the full replacement value of the engine.
- Note that this is not a complete list of the program requirements. For more information about what is required, read Chapter Eleven, Locomotives, in the 2011 Carl Moyer Program Guidelines (See below for link).

What can I do now, before I start my application?

- Read the Air District Carl Moyer Program Overview Fact Sheet for rules that apply to all project types available from the Air District and online at <http://www.baaqmd.gov/moyer>.
- Understand any applicable federal and state rules and MOUs in effect or pending for your engine.
- Review the California Air Resources Board (ARB) Carl Moyer Program Guidelines Chapter Eleven, Locomotives, at: <http://www.arb.ca.gov/msprog/moyer/moyer.htm>
- Start collecting information needed for your application.
- Contact your engine or equipment dealer to discuss potentially eligible projects for your equipment.
- Contact the Air District with any additional questions.

When are applications available?

Applications for the Carl Moyer Program will be available from the Air District through an online application system at <http://www.baaqmd.gov/moyer> on **July 14, 2014**. Applications that are determined to be **complete** will be evaluated on a first-come, first-served basis until all Carl Moyer funding has been allocated.

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