

**SAN DIEGO COUNTY AIR POLLUTION CONTROL DISTRICT  
YEAR 11/12 CARL MOYER PROGRAM (Solicitation #2)**

**Form F-1 - LOCOMOTIVE PROJECT APPLICATION  
New Purchase – Alternative Technology Switcher**

Please complete one form for each switcher.

Company name/ Organization name/Individual name:
Equipment Identifier (Company ID or Unit #):

**I. ACTIVITY INFORMATION**

<input type="checkbox"/> You must attach documentation showing the historical <b><i>fuel usage</i></b> for <b>EACH</b> existing engine over the last <b>24 consecutive months</b> . Documentation may be in the form of maintenance records, fuel logs, or other paperwork that shows fuel usage	
Percent Operation within CA: _____%	Percent Operation within District: _____%
Is there any seasonality to the use of the equipment? <input type="checkbox"/> Yes <input type="checkbox"/> No If yes, please explain:	

**II. NEW ALTERNATIVE TECHNOLOGY SWITCHER INFORMATION<sup>1, 2</sup>**

Railroad Class: <input type="checkbox"/> Class I <input type="checkbox"/> Class III	
What type of engine(s) does the new switcher use?: <input type="checkbox"/> On-Road <input type="checkbox"/> Off-Road/Stationary	
Reduced Emission Engine Fuel Type:	Reduced Emission Engine Make:
Reduced Emission Engine Model:	Reduced Emission Engine Year:
Reduced Emission Engine Horsepower:	
ARB Certification Executive Order, if any (on-road engine(s) only):	
Engine Family Name (off-road/stationary engine(s) only):	Engine Tier (off-road/stationary engine(s) only):
New Switcher Fuel Consumption:	
Has this locomotive been certified by U.S. EPA? <sup>3</sup> : <input type="checkbox"/> Yes <input type="checkbox"/> No If Yes: <ul style="list-style-type: none"> <li>• U.S. EPA certified locomotive NO<sub>x</sub> emission rate (g/bhp-hr): _____</li> <li>• U.S. EPA certified locomotive THC emission rate (g/bhp-hr): _____</li> <li>• U.S. EPA certified locomotive PM emission rate (g/bhp-hr): _____</li> </ul>	

<sup>1</sup> **Note:** Go to <http://www.epa.gov/otag/locomotives.htm> for federal emission standards for new locomotives and new engines used in locomotives.

<sup>2</sup> **Note:** Alternative switcher locomotives funded by the Carl Moyer Program include genset locomotives (multi-engine switcher) and electric-hybrid locomotives. Multi-engine switchers are typically powered by two or three off-road engines, while electric-hybrids use a small diesel engine to charge batteries that provide locomotive power. United States Environmental Protection Agency (U.S. EPA) considers an alternative technology switcher a new locomotive if it includes at least 75 percent (by value) new parts.

<sup>3</sup> **Note:** An alternative technology switcher must achieve a NO<sub>x</sub> emission rate of 3.5 g/bhp-hr and a PM emission rate of 0.10 g/bhp-hr. An alternative technology switcher must use the cleanest engine available certified to either the on-road or off-road engine standards.

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**III. AUTOMATIC ENGINE STOP-START (AESS) IDLE LIMITING DEVICE (ILD)<sup>4</sup>**

Does the project locomotive already have a functioning Automatic Engine Start-Stop (AESS) Idle Limiting Device (ILD) installed?: <input type="checkbox"/> Yes <input type="checkbox"/> No	
AESS Make:	AESS Model:
AESS Model Year:	AESS ID Number:

<sup>4</sup> **Note:** All locomotive projects receiving more than \$50,000 per locomotive in Carl Moyer Program funds must include the purchase and installation of an ILD if the locomotive is not already equipped with such a device and installation is technically feasible.

**IV. FUNDING INFORMATION**

New Switcher Cost (incl. tax): \$	
AESS Cost (optional) <sup>5</sup> : \$	
<b>Total Amount Requested for this Project<sup>7</sup>:</b>	
<input type="checkbox"/> Maximum allowable	Class 1: <b>50% of eligible project costs</b> Class 3 and Passenger: <b>85% of eligible project costs</b>
<input type="checkbox"/> Other: \$	You may request less than the maximum allowable funding amount to improve the cost-effectiveness of your project
Switcher Vendor:	Anticipated Project Completion Date:

<sup>5</sup> **Note:** If not already required by a rule, regulation, MOU, or other legal mandate, the Carl Moyer Program may pay up to 50 percent of the purchase and installation cost for an ILD for Class 3 and Small Passenger locomotives related to tourism.

<sup>6</sup> You **MUST** attach a written estimate from the equipment vendor documenting the cost of the new switcher, EMU, and AESS (if applicable).

**Attachment Reminder Checklist**

Did you attach the following to complete your application?

- ✓ One completed copy of Form A-1 – General Project Information Application
- ✓ Documentation showing the historical ***fuel usage*** for **EACH** existing engine over the last **24 consecutive months**. Documentation may be in the form of maintenance records, logs, or other paperwork that shows fuel usage
- ✓ Written estimate (quote) from the equipment vendor documenting the cost of each new switcher and AESS (if applicable)
- ✓ A completed IRS Form W9 and California Form 590 must be submitted