

BAY AREA AIR QUALITY MANAGEMENT DISTRICT

Carl Moyer Memorial Air Quality Standards Attainment Program

Marine Project Fact Sheet

The Bay Area Air Quality Management District (Air District) is accepting applications for the Carl Moyer Memorial Air Quality Standards Attainment Program (CMP) beginning **July 11**, **2016.** Marine projects eligible for funding include main or auxiliary engine replacements, engine remanufacture kits, engine retrofits, and new vessel purchases.

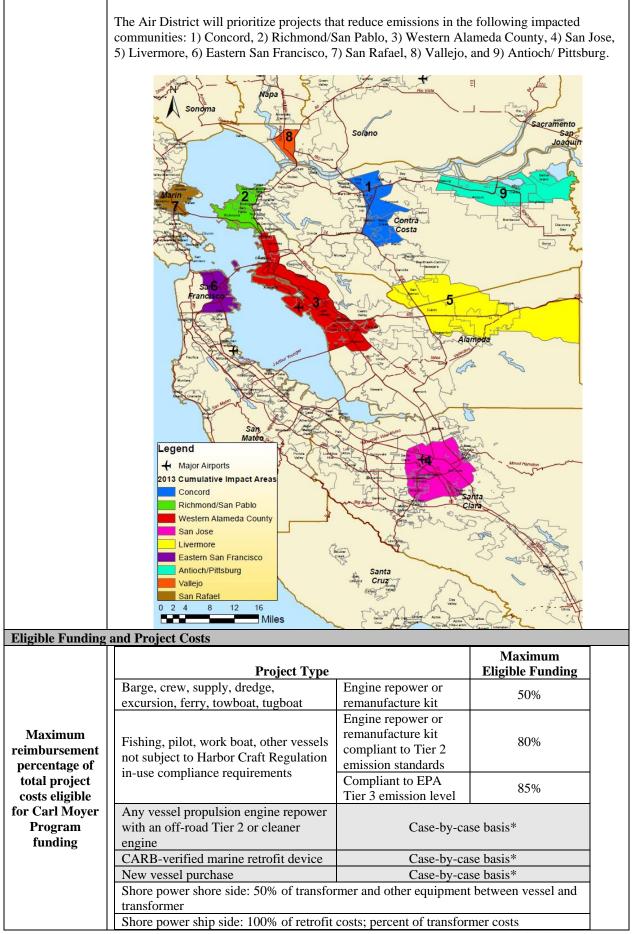
Apply on-line at: www.baaqmd.gov/moyer

Before starting your application:

- Read this Fact Sheet.
- Understand any state fleet or harbor craft rules that may apply to your fleet. Information is available at ARB's website: <u>http://www.arb.ca.gov/ports/marinevess/harborcraft.htm</u>
- Start collecting information on your equipment and engine needed for your application.
- Contact your engine or equipment dealer to discuss possibilities for your equipment.
- Review Chapter 12 "Marine Vessels" of the current California Air Resources Board (ARB) 2011 Carl Moyer Program Guidelines at: http://www.arb.ca.gov/msprog/moyer/guidelines/current.htm
- Contact Yu Zhang Liu at (415) 749-8430 or <u>vliu@baaqmd.gov</u> with any questions.

Eligible Projects	
	- <i>Repower</i> : Replace an in-use engine with a new, lower-emission engine
	 <i>Remanufacture Kit</i>: Installation of engine remanufacture kit that reduces the engine's emissions
Eligible marine	 New Vessel Purchase: Purchase of a new marine vessel with propulsion and auxiliary engines certified to be at least 30% cleaner than the applicable oxides of nitrogen
projects	(NO_x) emission standard; funding for a new purchase is very limited and must be
	considered on a case-by-case basis.
	- <i>Retrofit</i> : Installation of an ARB-verified diesel emission control strategy; funding for
	a retrofit device is very limited and must be considered on a case-by-case basis.
	 Propulsion or auxiliary engines 25 horsepower or greater
	- All new replacement engines must be certified to meet the appropriate EPA engine
	emission standard and provide at least a 15% NOx reduction compared to the old engine.
Eligible marine	 Engines less than or equal to 100 horsepower are required to meet Tier 3 EPA
engines and vessels	standards, unless it can be demonstrated that the technology is technically infeasible or unavailable.
	 Non-recreational vessels including, barge, crew, supply, dredge, excursion (tour), ferries, tugboats, towboats, commercial or charter fishing, pilot, work boats, and other vessels not subject to the Harbor Craft Regulation (HCR) in-use compliance requirements
	The vessel must operate within California Costal Water Boundaries AND within the Air
	District jurisdiction (Alameda, Contra Costa, Marin, San Mateo, San Francisco, Santa Clara,
	and Napa counties, and the southern portions of Solano and Sonoma counties). See Chapter 12
Area of activity	Page 4 in the CMP guidelines for coordinates of California Costal boundaries. District boundaries range south of Bodega Bay through San Mateo County.
fired of detivity	boundaries range south of Bouega Bay through ban Mateo County.
	CMP guidelines: http://www.arb.ca.gov/msprog/moyer/guidelines/current.htm
	Air District Boundaries:
	https://www.google.com/maps/d/viewer?mid=zkpGqewzKbdw.kb6GXWwrbk6g&msa=0

CMP Marine Project Quick-Reference Guide



Last updated: 7/1/2016

Eligible marine costs	 The capital cost of the new engine or remanufacture kit Purchase of or modifications to the cooling system; fuel and exhaust system; wiring, panel, and harness system; power take-offs; propulsion control system; gauges and alarms; and radiator and ventilation, if attached to or integral to the functioning of funded engine Gears / transmissions may be eligible on a case-by-case basis. You must include a written statement from the engine dealer explaining why new gears and transmission are required and why the current equipment will not work. Frames needed to be extended or other parts needed to be cut or modified in order to accommodate the new engine, as well as paint or coating needed to protect those specific areas that were cut or modified Tax and transport for eligible parts or costs Labor for installation of or modification to parts eligible for funding
Ineligible marine costs	 Retrofit device and installation Rudders or propellers Steering system Sea trials and dry docking Paint, coatings, or hull work not directly related to the engine repower Tax and transport for ineligible parts or costs Labor for installation of or modification to parts ineligible for funding Any parts or labor typically included as part of routine vessel or engine overhaul, maintenance, repair, or upkeep These and other items may be eligible for funding on a case-by-case basis if it can be proven that they are not part of the typical vessel overhaul, repair, upkeep or maintenance and are a necessary part of the engine repower.
Attachments Rec	quired for the Application
Quote(s) for the equipment to be funded:	Quotes must include: – Itemized list of eligible project costs – EPA Engine Family Number – Hourly rate and number of hours for labor charges
EPA Certificate of Conformity	(For engine replacement projects only) You must provide the EPA Certificate of Conformity for the engine being requested.
Usage documentation	You must provide records documenting usage from the previous two continuous years. These records must show the usage of each engine for which funds are being requested. Acceptable usage documentation includes hour logs taken from a functional hour meter.
Initial ARB Harbor Craft Report	You must provide a copy of the initial ARB Harbor Craft Report required by the State of California: <u>http://www.arb.ca.gov/ports/marinevess/harborcraft/reporting.htm</u> . As of February 28, 2009 all commercial harbor craft owner/operators were required to keep records for each vessel, and to install (if not already installed) a non-resettable hour meter on each engine. Vessel owner/operators will need to keep a copy of their initial report and yearly records on the vessel or in a central dockside location to be made available upon request by ARB staff. If you haven't completed a report, contact ARB to get started: • Kirk Rosenkranz – Phone: (916) 327-7843 / E-mail: <u>krosenkr@arb.ca.gov</u> For more information about record keeping: <u>http://www.arb.ca.gov/ports/marinevess/harborcraft.htm</u>
Droof of	You must provide documentation of general liability and workers compensation insurance and
Proof of Insurance	machinery insurance equal to the full replacement value of the equipment. Owner-operator fishing vessels are not required to carry insurance.
Project Requirer	
Project life & equipment	 Minimum of three (3) years. Equipment must remain in service for the project life. The project must be completed (ongine installed and operational) at least three (3)
usage	 The project must be completed (engine installed and operational) at least three (3) years prior to the associated Harbor Craft Regulation Compliance date.
requirements	
	(See the ARB Harbor Craft Regulation Compliance Schedule shown below) Projects must meet a cost-effectiveness of \$18,260 per weighted ton of NOx, ROG and PM10
Cost- effectiveness	reduced to be eligible.

Application Inst	ructions
Complete an application	Apply online at <u>www.baaqmd.gov/moyer.</u>
After you apply	Applications that are determined to be complete will be evaluated on a first-come, first-served basis until all funding has been allocated. All applicants will receive application completeness notifications within 5 business days via email from District staff. If you do not hear from the District within 5 business days, please contact the District immediately.
Questions?	For questions or more information, please contact Yu Zhang Liu at (415) 749-8430 or <u>yliu@baaqmd.gov</u>

ARB Commercial Harbor Craft Regulation Information

Webpage: http://www.arb.ca.gov/ports/marinevess/harborcraft.htm

What qualifies as harbor craft?		harbor craft that operate in Cali			
	All owners/operators of commercial harbor craft that operate in California Regulated Waters are required to comply with the reporting requirement of the regulation. Commercial harbor craft include, but are not limited to, ferries, excursion vessels, tugboats (including ocean-going tugboats), towboats, crew and supply vessels, work boats, pilot vessels, barges, and commercial and charter fishing boats.				
Who is exempt?	EXEMPT: Harbor craft engines be required to be repowered three year be eligible for Carl Moyer Program	s prior to the compliance deadlin			
What types of vessels are required to replace engines?	Ferries, excursion vessels, tugboats (including ocean-going tugboats), towboats, crew and supply vessels and barges / dredges. Compliance dates for these engines are listed below. For more information about the HCR, please visit: http://www.arb.ca.gov/ports/marinevess/harborcraft.htm#background				
Contact for Harbor Craft Regulation Questions	Kirk Rosenkranz – Phone: (916) 3 Website: <u>http://www.arb.ca.gov/po</u>		.ca.gov		
	Compliance Dates for Engines on Push Boats located outside the So Engine Model Year	<u>Ferries, Excursion Vessels, Tu</u> uth Coast AQMD Total Annual Hours of Operation	gboats, Towboats, and Compliance Date		
	1975 and earlier	≥ 1500	12/31/2009		
	1975 and earlier	≥300 and < 1500	12/31/2010		
	1976 - 1985	≥1500	12/31/2011		
	1976 - 1985	\geq 300 and < 1500	12/31/2012		
	1986 - 1995	≥1500	12/31/2013		
Regulation	1986 - 1995	\geq 300 and < 1500	12/31/2014		
compliance schedule for	Ferries Only 1996 - 1999	≥ 300	12/31/2014		
	Vessels Other Than Ferries 1996 - 1999	≥ 1500	12/31/2015		
engine replacement	1770 1777	> 200 = 1 < 1500	10/01/0016		
replacement must meet EPA	Vessels Other Than Ferries 1996 - 1999	\geq 300 and < 1500	12/31/2016		
replacement must meet EPA Tier 2 or Tier 3	Vessels Other Than Ferries 1996 - 1999 2000	≥ 1500	12/31/2015		
replacement nust meet EPA Tier 2 or Tier 3 emission	Vessels Other Than Ferries 1996 - 1999 2000 2000	≥ 1500 $\geq 300 \text{ and } < 1500$	12/31/2015 12/31/2016		
replacement nust meet EPA Tier 2 or Tier 3	Vessels Other Than Ferries 1996 - 1999 2000 2000 2001 - 2002	$ \ge 1500 \\ \ge 300 \text{ and } < 1500 \\ \ge 300 $	12/31/2015 12/31/2016 12/31/2017		
replacement nust meet EPA Fier 2 or Tier 3 emission standards—	Vessels Other Than Ferries 1996 - 1999 2000 2000 2001 - 2002 2003	$ \ge 1500 \\ \ge 300 \text{ and } < 1500 \\ \ge 300 \\ \ge 300 \\ \ge 300 $	12/31/2015 12/31/2016 12/31/2017 12/31/2018		
replacement nust meet EPA Tier 2 or Tier 3 emission standards— cleanest	Vessels Other Than Ferries 1996 - 1999 2000 2000 2001 - 2002 2003 2004		12/31/2015 12/31/2016 12/31/2017 12/31/2018 12/31/2019		
replacement nust meet EPA Tier 2 or Tier 3 emission standards— cleanest	Vessels Other Than Ferries 1996 - 1999 2000 2000 2001 - 2002 2003	$ \ge 1500 \\ \ge 300 \text{ and } < 1500 \\ \ge 300 \\ \ge 300 \\ \ge 300 $	12/31/2015 12/31/2016 12/31/2017 12/31/2018		

ARB Commercial Harbor Craft Regulation

	Engine Model Year	Total Annual Hours of	Compliance Date
Regulation		Operation	
ompliance	1985 and earlier	> 1500	12/31/2011
chedule for	1985 and earlier	> 300 and < 1500	12/31/2012
engine	1986 – 1995	> 1500	12/31/2013
eplacement	1986 – 1995	> 300 and < 1500	12/31/2014
	1996 - 2000	> 1500	12/31/2015
st meet EPA	1996 - 2000	> 300 and < 1500	12/31/2016
er 2 or Tier 3	2001 - 2002	> 300	12/31/2017
emission	2003	> 300	12/31/2018
tandards—	2004	> 300	12/31/2019
cleanest	2005	> 300	12/31/2020
available	2006	> 300	12/31/2021
	2007	> 300	12/31/2022
		Dates for pre-Tier 1 and Tier 1 E lge and Barge Vessels Statewide	ngines on
Regulation			ngines on Compliance Date
ompliance	Dree	lge and Barge Vessels Statewide	0
	Dree Engine Model Year 1975 and earlier	lge and Barge Vessels Statewide Total Annual Hours of Operation >80	Compliance Date 12/31/2011
ompliance chedule for engine	Dree Engine Model Year 1975 and earlier 1976 -1980	lge and Barge Vessels Statewide Total Annual Hours of Operation >80 >80	Compliance Date 12/31/2011 12/31/2012
ompliance chedule for engine	Dree Engine Model Year 1975 and earlier 1976 -1980 1981 - 1985	lge and Barge Vessels Statewide Total Annual Hours of Operation >80 >80 >80 >80 >80	Compliance Date 12/31/2011 12/31/2012 12/31/2013
ompliance chedule for engine eplacement	Dree Engine Model Year 1975 and earlier 1976 - 1980 1981 - 1985 1986-1990	lge and Barge Vessels Statewide Total Annual Hours of Operation >80 >80 >80 >80 >80 >80 >80	Compliance Date 12/31/2011 12/31/2012 12/31/2013 12/31/2014
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