

**PROPOSITION 1B:
GOODS MOVEMENT EMISSION REDUCTION PROGRAM**

***Proposed Update to*
GUIDELINES FOR IMPLEMENTATION**

Board Consideration: March 25, 2010

California Environmental Protection Agency

 **Air Resources Board**

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NOTES TO THE READER

This proposed update to the Proposition 1B: Goods Movement Emission Reduction Program Guidelines for Implementation is intended to completely replace the original Guidelines adopted by the Air Resources Board on February 28, 2008.

Proposed deletions of the original text are shown in ~~strikeout~~ and proposed additions are shown in underline, except for minor grammatical and capitalization changes. This document also notes where existing sections have been moved for improved organization and clarity.

The Air Resources Board will hold a public hearing to consider public testimony and adoption of the proposed update to the Guidelines and the accompanying Staff Report on:

March 25, 2010
9:00 a.m.
Byron Sher Auditorium, 2nd Floor
California Environmental Protection Agency Headquarters
1001 "I" Street
Sacramento, California 95814

Please see the Program website at: <http://www.arb.ca.gov/gmbond> for the Hearing Notice, the proposed Guidelines, and the Staff Report that describes the basis for the proposed changes to the Guidelines.

Once the Board acts on the proposed update, ARB staff will publish a final, clean version of these Guidelines (without the strikeout/underline markings) and post it on the Program website.

DOCUMENT AVAILABILITY

Electronic copies of this document and related materials can be found at: <http://www.arb.ca.gov/gmbond>. Alternatively, paper copies may be obtained from the Air Resources Board's (ARB) Public Information Office, 1001 I Street, 1st Floor, Visitors and Environmental Services Center, Sacramento, California, 95814, (916) 322-2990.

If you need this document in an alternative format (i.e., Braille, large print) or another language, please contact Melissa Niederreiter at (916) 323-6576 or mniederr@arb.ca.gov. TTY/TDD/Speech to Speech users may dial 711 for the California Relay Service.

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ONGOING CLARIFICATION OF PROGRAM REQUIREMENTS

ARB staff clarifications regarding specific issues that may arise after publication of the final Guidelines will be made available on the Program website to assist agencies with implementation.

DISCLAIMER

This report has been reviewed by ARB staff and approved for publication. Approval does not signify that the contents necessarily reflect the views and policies of ARB the, nor does mention of trade names or commercial products constitute endorsement or recommendation for use.

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I. Overview

A. Introduction

Emissions from the diesel engines in trucks, locomotives, ships, harbor craft, and cargo-handling equipment contribute to local, regional, and global air pollution. The diesel pollution from goods movement operations greatly impacts the health of community residents near ports, rail yards, distribution centers, and roads with high truck traffic. Diesel emissions are also a major cause of the high regional ozone and fine particle levels that harm millions of Californians today.

Goods movement sources contribute to ~~each of California's four priority trade corridor's~~ air pollution challenges. The Los Angeles/Inland Empire region has the largest concentration of goods movement facilities (e.g., ports and rail yards), with high near-source health risks and high levels of regional ozone and fine particulate (PM2.5) pollution. In the Central Valley, the facilities are less concentrated, but there is relatively more through truck and rail traffic that contribute to the region's harmful ozone and PM2.5 levels. In the Bay Area, regional ozone and PM2.5 levels are much lower, but truck, port, and rail yard activity adjacent to neighborhoods contributes to high localized health risks. In the San Diego/Border region, trucks and operations at the port contribute to regional ozone and PM2.5 pollution above the State of California (State) standards.

Proposition 1B authorizeds the Legislature to appropriate \$1 billion in bond funding to the Air Resources Board (ARB or Board) to quickly reduce air pollution emissions and health risks from freight movement along California's priority trade corridors. The State Fiscal Year (FY) 2007-08 budget includeds the first installment of \$250 million, ~~plus~~ implementing legislation, via Senate Bill 88 (SB 88) (Chapter 181, Statutes of 2007), ~~that~~ created the Goods Movement Emission Reduction Program (Program). Assembly Bill 201 (AB 201) (Chapter 187, Statutes of 2007) includeds a minor clarification. These bills are codified in the Health and Safety Code, section 39625 et seq. SB 88 required ARB to adopt Guidelines to ensure the Program achieves the statutory objectives.

The implementing statutes directed ARB to maximize the emission reduction benefits and achieve the earliest possible health risk reduction in communities heavily impacted by goods movement. This Program supplements regulatory actions and other incentives to cut diesel emissions. By statute, the Program can only fund emission reductions "not otherwise required by law or regulation." Key pollutants targeted by the Program include diesel particulate matter (diesel PM), an air toxic, and nitrogen oxides (NOx) that contribute to the formation of both PM2.5 and ozone. The projects funded under the Program also provide co-benefits by reducing greenhouse gases and black carbon emissions that contribute to climate change.

The FY2007-08, FY2008-09, and FY2009-10 State budgets each appropriated installments of \$250 million for the Program. While the State budget appropriates funding for the Program, ARB must receive cash from the sale of bonds or a loan from the Pooled Money Investment Board to implement grants or loan programs.

ARB awards grants to fund projects proposed by local agencies that are involved in freight movement or air quality improvements associated with goods movement activities. Examples of local agencies include air pollution control and air quality management districts (air districts), ports, and regional transportation agencies in the trade corridors. The local agencies are responsible for providing financial incentives to owners of equipment used in freight movement to upgrade to cleaner technologies, consistent with the Guidelines adopted by ARB. Bond funds flow via grant agreements from ARB to local agencies, then to equipment owners via contracts or other binding agreements with those local agencies. At both steps, there is competition based on the projected emission reductions and reductions per State dollar invested to ensure the most beneficial projects are funded. ARB may also award funds to any State agency (including ARB itself) for the purpose of administering a loan or loan guarantee program via an interagency agreement.

ARB staff developed these *Proposition 1B: Goods Movement Emission Reduction Program Guidelines for Implementation* (Guidelines) in consultation with stakeholders, including: air districts, metropolitan planning organizations, port authorities, shipping lines, railroad companies, trucking companies, harbor craft owners, freight distributors, terminal operators, local port community advisory groups, community interest groups, and airports. These Guidelines are designed to fund qualifying projects that reduce emissions and health risks, incorporate simplicity and efficiency, ensure cost-effectiveness, leverage other funding sources, and provide transparency and accountability.

When the Board adopted the initial Guidelines on February 28, 2008, the Board directed ARB to reassess those Guidelines and bring appropriate updates to the Board following each appropriation of funding. This is the first update. This proposed update incorporates interim changes made via Board Resolution, Executive Orders, and staff clarifications for projects receiving FY2007-08 funds. It also revises the project specifications for FY2008-09 and later year funds. The updated 2010 Guidelines will supersede the February 28, 2008 Guidelines, except for the limited provisions identified in Chapter II.A.2 for FY2007-08 funds.

B. Authority

The legal authority for the Program is found in the Highway Safety, Traffic Reduction, Air Quality, and Port Security Bond Act of 2006, also known as Proposition 1B, pursuant to the implementing statutes discussed below. Governor Schwarzenegger provided additional direction to ARB in his Executive Order S-02-07 on bond accountability and his signing statement on the 2007-08 budget bill -- Senate Bill 77 (Chapter 171, Statutes of 2007) (SB 77).

1. Proposition 1B

In November 2006, California voters approved the ~~Highway Safety, Traffic Reduction, Air Quality, and Port Security Bond Act of 2006, also known as Proposition 1B.~~ Proposition 1B, which among other things, authorized ~~s~~ \$1 billion dollars to reduce emissions from goods movement in California's trade corridors.

“One billion dollars (\$1,000,000,000) shall be made available, upon appropriation by the Legislature and subject to such conditions and criteria contained in a statute enacted by the Legislature, to the State Air Resources Board for emission reductions, not otherwise required by law or regulation, from activities related to the movement of freight along California's trade corridors. Funds made available by this paragraph are intended to supplement existing funds used to finance strategies and public benefit projects that reduce emissions and improve air quality in trade corridors commencing at the state's airports, seaports, and land ports of entry.” (Government Code, Title 2, Division 1, Section 1, Chapter 12.49, Article 2, Section 8879.23(c)(2)).

2. Senate Bill 88 and Assembly Bill 201

In August 2007, the California Legislature passed and Governor Schwarzenegger signed SB 88 and AB 201, which set forth the implementing legislation for the Program in Health and Safety (H&S) Code, section (§) 39625 et seq. SB 88 broadly requires ARB to adopt Guidelines, establish funding criteria and procedures, and provide periodic reports.

Under SB 88, ARB must adopt ~~Program~~ Guidelines that include, at a minimum, all of the following:

- An application process for the funds, and any limits on administrative costs.
- Requirements that local agencies identify the useful life of the project and project delivery milestones as part of the application process.
- Criteria for selection of local agency projects and equipment projects.
- Requirements for match funding.
- The method by which ARB will consider an air basin's status in achieving state and federal air quality standards.
- Requirements that grant agreements between ARB and local agencies identify project milestones and remedies for failure to meet project milestones.
- Accountability and auditing requirements, including provisions for audits of project expenditures and outcomes.

SB 88 and AB 201 detail more than 15 factors that ARB is directed to consider when allocating funds and selecting local agency projects. Some of these criteria are most effectively applied by targeting levels of funding to trade corridors and emission source categories, while others lend themselves to selecting among competing local agency projects or equipment projects. The steps ARB takes to allocate funds include:

- Identifying funding targets for the overall Program, plus setting funding priorities and defining the equipment project options for each appropriation.
- Competitively ranking and selecting local agency projects for funding in each appropriation cycle.
- Establishing the procedures that local agencies will use to competitively rank and select equipment projects for funding.

Tables 4.1 – 4.3 detail these steps and link each related provision of these Guidelines to the statutory requirements in the Health and Safety Code related to funding projects.

SB 88 also establishes basic reporting requirements for ARB and local agencies (all references are to the Health and Safety Code):

- ARB shall submit an annual report to the Legislature summarizing its activities related to the administration of this Program on January 10 [§39627.5].
- The local agency shall complete semiannual reports on progress made toward implementation of the project [§39625.02(f)(1)].
- The local agency shall submit a final report on project completion within 6 months of the project becoming operable [§39625.02(f)(2)].

Table 4.1 ARB Funding Priorities/Project Options and Statutory Funding Requirements

ARB Action <i>Guidelines reference</i>	Provisions	Statutory Requirements [references to Health and Safety Code]
1. Recommend trade corridor funding targets (<i>corridors in §39625.1(e)</i>) <i>Chapter II.B.1.</i>	Population relative to other trade corridors	The combination of population and goods movement emissions: considers the public health risk associated with goods movement-related emissions and air toxics [§39626(a)(1)(D)] and the public health benefits of the emission reduction from funded projects [§39625.5(b)(2)(B)]; allocates funds in a manner that gives priority to funding for emission reduction projects that achieve the earliest possible reduction of health risk in communities with the highest health risks from goods movement facilities [§39625.5(b)(1)]; and reflects whether reductions from funded projects are likely to occur in locations with elevated emissions and exposure [§39625.5(b)(2)(K)].
	Percent of emissions from goods movement relative to other trade corridors	
	State Implementation Plan (SIP) needs relative to other trade corridors	Considers an air basin’s status in maintaining and achieving State and federal ambient air quality standards [§39626(a)(1)(D)], and SIP requirements [§39625.5(b)(2)(E)] in evaluating what level of funding should be administered by local agencies in each trade corridor.
2. Recommend source category funding targets (<i>categories in §39625.1(c)</i>) <i>Chapter II.B.2.</i>	Emissions from each category	Considers the severity and magnitude of the emission source category’s contribution to goods movement emissions [§39625.5(b)(2)(D)], including greenhouse gas emissions [§39625.5(b)(2)(F)].
	Health impact of category	Allocates funds in a manner that gives priority to emission reduction projects that achieve the earliest possible reduction of health risk in communities with the highest health risks from goods movement facilities [§39625.5(b)(1)]
	Funding category	Requires competition for funding between local agency projects in six <u>four</u> funding categories that represent a single source category or combination of categories (i.e., other trucks are combined with electrification of truck stops/etc. and shore power is combined with cargo equipment). Expends funds in a manner that reduces the health risk associated with freight movement along California’s trade corridors [§39625(d)], maximizes the emission reduction benefits [§39625(e)], and provides incentives to control emission sources that contribute to increased health risk in the future [§39625(e)].

Table 4I.1 ARB Funding Priorities/Project Options and Statutory Funding Requirements (cont.)

ARB Action Guidelines reference	Provisions	Statutory Requirements [references to Health and Safety Code]
<p>3. Recommend funding priorities for each appropriation <i>Chapters II.B.3. and II.B.4.</i></p>	<p>Projects that can be quickly implemented <u>FY2007-08:</u> Truck retrofits with diesel PM filters and Los Angeles/Inland Empire port truck replacements <u>FY2008-09 and FY2009-10:</u> <u>Truck, locomotive, and ships at berth projects</u></p>	<p>Allocates funds in a manner that gives priority to projects that achieve the earliest possible reduction of health risk in communities with the highest health risks from goods movement facilities [§39625.5(b)(1)]. Retrofitting trucks with diesel PM filters is the fastest way to reduce health risk because those retrofits can be accomplished quickly. Communities around the Ports of Los Angeles and Long Beach, and along the drayage truck routes to intermodal rail yards or distribution centers, have elevated emissions and exposure from these truck operations [§39625.5(b)(2)(K)].</p> <p>Truck upgrade projects quickly reduce the health risk in communities near high truck-traffic freeways, warehouse/distribution centers, ports, and rail yards [§39625.5(b)(1)]. Locomotive projects cut the elevated, excess cancer risks in neighborhoods near rail yards, as identified in ARB's health risk assessments [§39625.5(b)(1)]. Ships at berth projects further reduce diesel pollution in port communities, and cut greenhouse gas emissions [§39625.5(b)(2)(F)].</p>
<p>4. List eligible equipment project options and project specifications for each appropriation <i>(project types identified in §39625.5(a)(2)) Chapter II.C.1. and Appendices A-GF.</i></p>	<p>Equipment and/or emission level</p>	<p>Begins with list of projects eligible for funding [§39625.5(a)(2)]. List of project options considers: the ability to reduce criteria and toxic emissions [§39625.5(b)(2)(I)], the magnitude of the emission reduction [§39625.5(b)(2)(A)], public health benefits of the emission reduction [§39625.5(b)(2)(B)], existing (and pending) regulatory requirements [§39625.5(b)(2)(E)], use of advanced emission reduction technologies [§39625.5(b)(2)(G)] where demonstrated and available, and reduction in greenhouse gas emissions [§39625.5(b)(2)(F)] via detailed specifications for equipment upgrades. For locomotives, establishes additional provisions for Class I railroads that have signed agreements with public agencies to allow ARB to ensure that the emission reductions from any locomotive projects for these railroads are not necessary to satisfy any mandated reduction requirement under any such agreement [§39625.5(a)(2)(B)]. Specifically prohibits funding for idle reduction devices required by the 2005 Memorandum of Understanding and requires railroads to submit a compliance plan for the 1998 MOU before seeking funding for locomotives that operate in the South Coast Air Basin.</p>
	<p>Funding caps/match funding</p>	<p>Requires a specified contribution of funds leveraged from other sources or in-kind contributions to the project [§396269(a)(1)(B)], considers the cost-effectiveness of the reduction [§39625.5(b)(2)(C)] and helps leverage other funds [§39625.5(b)(2)(H)] via caps on State bond funds that can be requested for each equipment project option. State bond funding caps amount to roughly 1/3 to 1/2 of total project cost, with the remainder covered by private or public matching funds.</p>

Table 4.1 ARB Funding Priorities/Project Options and Statutory Funding Requirements (cont.)

ARB Action Guidelines reference	Provisions	Statutory Requirements [references to Health and Safety Code]
4. (cont.)	Project life	Considers sustainability of the <u>emission</u> reductions via minimum project life expressed as years of operation or activity levels for upgraded equipment [§39625.5(b)(2)(C)] and project life element of reductions over project lifetime per State dollar invested [§39625.5(b)(2)(J)].
	Project completion prior to regulatory requirement(s) <u>or emission reductions beyond regulatory requirements</u>	Considers the degree of surplus reductions [§39625.5(b)(2)(E)] and ensures funded projects achieve reductions not otherwise required by law or regulation [§39625.5(a)(1)] via requirements that equipment upgrades be operational a specified time period in advance of any regulatory requirement for such upgrade, <u>or that upgrades achieve emission reductions greater than required by regulation.</u>
	Conditions on future operations	Considers whether reductions are likely to occur in areas with elevated emissions and exposure [§39625.5(b)(2)(K)] via requirements for <u>at least 90% 400%</u> California operation or home port, plus visitation frequency for trucks serving ports and intermodal rail yards.

Table 4.2 Selection Process for Local Agency Projects and Statutory Funding Requirements

ARB Action Guidelines reference	Based On	Statutory Requirements [references to Health and Safety Code]
1. Issue <u>N</u> otice of <u>F</u> unding <u>A</u> vailability <i>Chapter II-DE.1.</i>	Registration, application submittal and schedule, and requirement for community meeting	Starts local agency application process [§39626(b)]. Requires local agencies to share concepts for local agency projects, and solicit and consider community input prior to applying for Program funding – this helps ensure that local agency project proposals provide the earliest possible reduction of health risk in communities with the highest risk from goods movement [§39625.5(b)(1)].
2. Review local agency eligibility <i>Chapters II-DE.2. and II-DE.3-b.</i>	Basic qualification	Meets statutory definition of an applicant as a local public entity involved in freight movement or air quality improvements associated with goods movement [§39625.1(a)] and further requirements of these Guidelines.
3. Review local agency project eligibility <i>Chapter II-DE.3.</i>	Completeness	Ensures presence of complete application and signed board/commission resolution needed to evaluate statutory requirements described below.
	Consistent with legal and project specifications	Ensures local agency project achieves emission reductions not otherwise required by law or regulation [§39625.5(a)(1)] and complies with all eligible equipment project options and equipment project specifications that encompass multiple statutory requirements (see above).

Table 4I.2 Selection Process for Local Agency Projects and Statutory Funding Requirements (cont.)

ARB Action Guidelines reference	Based On	Statutory Requirements [references to Health and Safety Code]
3. (cont.)	Sponsored by an applicant and consistent with air quality plans	Local agency project is sponsored by an applicant as evidenced by project submittal [§39626.5(a)(1)] and project is consistent with any comprehensive local or regional plans or strategies to reduce emissions from goods movement [§39626.5(a)(2)].
	Availability of full funding	Requires project funding element to demonstrate that the funds are expected to be reasonably available and sufficient to complete the project [§39625.02(d)].
	Project schedule/milestones	Requires project nominations (applications) to have project delivery milestones [§39625.02(e)(3)].
	Data for competitive ranking process	Requires project nominations (applications) to identify reflect the useful life of the project <u>specifications</u> [§39625.02(e)(2)], as well as provide data on the emission reductions, total project cost, Program and match funds (other State, local, federal, and private) to support competitive ranking in Action 7 below.
4. Post eligible projects on website <i>Chapter II-DE.3</i>	Public access	Makes available preliminary list of projects being considered for funding for public input and comment [§39626(c)(1)].
5. Evaluate local agency capability to implement project scope <i>Chapter II-DE.4.</i>	Resources to implement project scope within allowed time	Considers local agency's ability to implement equipment projects and emission reductions to achieve the earliest possible health risk reduction [§39625(e)] and [§39625.5(b)(1)].
6. Require match funding <i>Chapter II-DE.5. and Appendices A-GF</i>	Identify sources of match funding	Ensures that State bond funds are supplemented and matched with funds from federal, local, and private sources to the maximum extent feasible [§39625.5(c) and §39625.5(b)(2)(H)].

Table 4I.2 Selection Process for Local Agency Projects and Statutory Funding Requirements (cont.)

ARB Action Guidelines reference	Based On	Statutory Requirements [references to Health and Safety Code]
7. Competitively rank local agency projects <i>Chapter II.-DE.6.</i>	Emission reductions score	Requires <u>local agency</u> projects to compete within a <u>funding source</u> category based on greatest emission reductions [§39625.5(a)(1)] and magnitude of the emission reductions [§39625.5(b)(2)(A)]. Considers public health benefits of the reductions by weighting combustion PM (i.e., diesel PM) by a factor of 20 relative to criteria pollutant NOx to reflect the greater health impact of each ton of PM emissions [§39625.5(b)(2)(B)], sustainability of the reductions via project life [§39625.5(b)(2)(C)], and ability to reduce criteria and toxic pollutants by considering NOx and diesel PM [§39625.5(b)(2)(I)].
	Cost-effectiveness and match score	Considers cost-effectiveness of the <u>emission</u> reductions [§39625.5(b)(2)(C)] and ability to leverage funds from other sources [§39625.5(b)(2)(H)] by assessing total <u>weighted emission</u> reductions over project lifetime per State dollar invested [§39625.5(b)(2)(J)].
	Competitive ranking	Equally weights the above scores.
8. Hold workshops <i>Chapter II.-DE.7.</i>	Public input	Requires ARB staff to hold public workshops in northern, central, and southern California to discuss the preliminary list of local agency projects being considered for funding [§39626(c)(2)].
9. Recommend project funding <i>Chapter II.-DE.8.</i>	<u>Local agency</u> competitive ranking	Allocates funds on a competitive basis for projects that achieve the greatest emission reductions from each source category [§39625.5(a)(1)].
	Available funds and funding priorities	Limits selection or “programming” of local agency projects to funds appropriated by the Legislature [§39626(d)].
10. Hold hearing to adopt project list <i>Chapter II.-DE.9.</i>	Public hearing and Board adoption of <u>funding awards to local or State</u> agency projects	Requires consideration of projects at a regularly scheduled public hearing [§39626(c)(3)]. Requires adoption of a final list of projects for funding [§39626(c)(3)].
11. Execute local agency <u>or interagency</u> agreements <i>Chapters II.-DE.10. and II.E.11.</i>	ARB and local <u>or State</u> agency to sign	Implements grant funding via legal agreements between ARB and recipient local <u>or State</u> agencies [§39625.3]. Ensures statutory and Guideline requirements for local <u>or State</u> agency projects are met.

Table 4.3 Selection Process for Equipment Projects and Statutory Funding Requirements

Local Agency Action <i>Guidelines reference</i>	Based On	Statutory Requirements [references to Health and Safety Code]
1. Solicit equipment project applications <i>Chapters IV.A.2., IV.A.3., and IV.A.4. III.D.2. and III.D.3.</i>	Marketing/outreach and application elements including data for competitive ranking process	Requires project nominations (applications) to identify <u>reflect</u> the useful life of the project [§39625.02(e)(2)], as well as provide data on the emission reductions equipment activity to estimate emissions , total project cost, Program and match funds (other State, local, federal, and private) to support competitive ranking in Action 3 below. Also requires local agencies to promote truck efficiency upgrades to reduce greenhouse gases [§39625.5(b)(2)(F)]. For electrification infrastructure projects, requires local agencies to encourage the participation of small businesses in the construction of the State's infrastructure [Government Code Section 14838.1].
2. Require match funding <i>Chapter IV.A.6. III.D.5. and Appendices A-GF.</i>	Identify sources of match funding	Ensures that State bond funds are supplemented and matched with funds from federal, local, and private sources to the maximum extent feasible [§39625.5(c) and §39625.5(b)(2)(H)].
3. Competitively rank equipment projects (each vehicle or piece of equipment competes separately) <i>Chapter IV.A.7. III.D.6.</i>	Emission reductions score	Requires equipment projects to compete within a source category and trade corridor based on greatest emission reductions [§39625.5(a)(1)] and magnitude of the emission reductions [§39625.5(b)(2)(A)]. Also considers: public health benefits of the reductions by weighting combustion PM (i.e., diesel PM) by a factor of 20 relative to criteria pollutant NOx to reflect the greater health impact of each ton of PM emissions [§39625.5(b)(2)(B)], sustainability of the reductions via project life [§39625.5(b)(2)(C)], and ability to reduce criteria and toxic pollutants by considering NOx and diesel PM [§39625.5(b)(2)(I)].
	Cost-effectiveness match score	Considers cost-effectiveness of the <u>emission</u> reductions [§39625.5(b)(2)(C)] and ability to leverage funds from other sources [§39625.5(b)(2)(H)] by assessing total <u>weighted emission</u> reductions over project lifetime per State dollar invested [§39625.5(b)(2)(J)].
	Competitive ranking	Equally weighting the above scores.
4. Post ranked projects <i>Chapter IV.A.7. III.D.6.</i>	Public access	Provides public access to competitively ranked projects proposed for funding prior to signature of contracts with equipment owners [consistent with statutory provision for ARB to do the same in §39626(c)(1)].
5. Execute equipment project contracts <i>Chapter IV.A.11. III.D.10.</i>	Local agency and equipment owner (and any lessee) to sign	Ensures statutory and Guideline requirements for equipment projects are met.

3. New legislation

Assembly Bill 892 (Furutani, Statutes of 2009) authorizes local agencies to award unspent or returned funds from previously obligated contracts to new equipment projects. Local agencies may either award these funds to new equipment projects selected from the same competitively ranked list as was used in the original award or return the funds to ARB for reallocation as described in the Guidelines. Local agencies must disburse any unspent or returned funds on a new contract within 4 years of the date of the award of the original contract or the funds revert to the California Ports Infrastructure, Security, and Air Quality Improvement Account Highway Safety, Traffic Reduction, Air Quality and Port Security Fund of 2006.

Assembly Bill 672 (Bass, Statutes of 2009) allows local agencies implementing approved Proposition 1B projects to apply to the administering State agency for a “letter of no prejudice” to authorize future reimbursement for funds to be advanced by the local agency at its own risk. Although the legislation is primarily directed at transportation projects funded by Proposition 1B, it also applies to air quality projects. Projects covered by a letter of no prejudice would not gain an advantage or higher priority for funding. The ARB Executive Officer or his or her designee has the authority to specify the submittal process and ARB staff approval procedures for letters of no prejudice.

4. Governor Schwarzenegger’s directives

In January 2007, Governor Schwarzenegger issued Executive Order S-02-07 highlighting the importance of transparency and accountability in administering the over \$40 billion in bond funding approved by California voters in 2006. The Executive Order directs all State government entities responsible for expending bond proceeds to establish and document a three-part accountability structure that includes:

- Front-end accountability, which defines the criteria for expending bond funds as well as the outcomes that the funds are intended to achieve.
- In-progress accountability, which documents actions to ensure projects are staying within scope and cost, and requires semi-annual reports to the Department of Finance (DOF).
- Follow-up accountability, which requires audits to ensure expenditures achieved the intended outcomes and were consistent with legal requirements.

ARB submitted and DOF approved the three-part structure for this Program (based on the initial Guidelines) in February 2008. The approved structure is available on the Program website.

The Governor’s signing message on the FY2007-08 budget via SB 77 also:

- Called on ARB to move quickly—without sacrificing accountability—to provide relief for the individuals who reside along California’s busy trade corridors.
- Directed ARB to ensure funding is allocated consistent with the accountability safeguards in the Executive Order.

- Charged ARB to develop Guidelines that make sense, reduce bureaucratic red tape, simplify and expedite project application and award procedures, and ensure projects are completed in record time.
- Called on local agencies to work closely with ARB to be prepared to submit applications for funding as soon as possible.

C. Definitions

The following definitions apply for the purposes of these Guidelines.

Table 4.4 Definitions

Term	Definition
Administrative Agency	“Administrative agency” (henceforth <u>ARB or Board</u>) is defined by SB 88 to be the Air Resources Board as the State agency responsible for programming Program funds.
Administration Funds	“Administration funds” are defined as the monies available up to the limits defined in these Guidelines to cover expenses incurred for implementation of the Program by ARB or a local agency that is party to an executed grant agreement.
Allocation	“Allocation” is defined as the Board action to award grant funds to local agencies as documented in a Board resolution.
Applicant	“Applicant” is defined by SB 88 to mean a “local public entity involved in the movement of freight through trade corridors of the state or involved in air quality improvements associated with goods movement. <u>For the purpose of administering a loan or loan guarantee program only, an applicant may be any State agency, including ARB.</u> ” These Guidelines clarify how ARB will assess a local public entity’s eligibility as a Program applicant. Also referred to as an applicant local agency.
Appropriation	“Appropriation” means an authorization by the Legislature in the annual Budget Act to make funds available from the California Ports Infrastructure, Security, and Air Quality Improvement Account Highway Safety, Traffic Reduction, Air Quality and Port Security Fund of 2006 to ARB for the purpose of implementing SB 88 and AB 201 this Program.
ARB or Board	“ARB” or “Board” means the California Air Resources Board. The term “Board” is specifically used to refer to the governing board of the agency and is typically associated with formal actions to adopt Guidelines or projects for funding.
Authorized Local Agency Representative	“Authorized local agency representative” means the individual(s) from the local agency authorized to sign or act on behalf of the local agency.
Baseline Emissions	“Baseline emissions” are defined as the emissions levels of diesel engine(s) except interstate line-haul locomotives, using CARB diesel fuel prior to any equipment upgrades funded by this Program.
Contract	“Contract” means the legally binding agreement between a local agency and equipment owner. (Also referred to as an Equipment Project Contract)
Contract Term	“Contract Term” means the combined time period for: <ol style="list-style-type: none"> 1) Equipment project completion; and 2) The equipment project life. (Also referred to as an Equipment Project Contract Term)

Table 1.4 Definitions (cont.)

Term	Definition
Cost-Effectiveness	“Cost-Effectiveness” means the total pollutant-weighted emission reductions over the project life, per dollar of State funding invested, <u>except for State funds specifically excluded from this calculation by the Guidelines.</u>
Days	“Days” means <u>calendar days, unless otherwise noted.</u>
Diesel Particulate Matter (diesel PM)	“Diesel Particulate Matter (Diesel PM)” means the particles found in the exhaust of diesel engines, which may agglomerate and adsorb other species to form structures of complex physical and chemical properties. Diesel PM is a subset of fine particulate matter 2.5 microns or less in diameter (PM2.5).
Earned Interest	“Earned interest” means accrued interest from Program funds being held by the local agency in interest-bearing accounts.
Elapsed Equipment Project Life	“ <u>Elapsed equipment project life</u> ” means the time elapsed since post-inspection of the completed project by the local agency.
Equipment Owner	“Equipment owner” means the <u>current</u> legal owner of Program-eligible equipment and <u>program funded equipment</u> , except that for grid-based shore power, the term “equipment owner” shall encompass any party with the authority to co-fund, implement, and operate improvements resulting in provision of grid-based shore power, which may include, but not be limited to the port, a marine terminal operator, and shipping companies.
Equipment Project	“Equipment project” means an upgrade of existing <u>diesel equipment via retrofit, repower, replacement, installation of electrical infrastructure or an emissions capture and control system</u> , according to Program requirements. Each individual truck, locomotive, <u>rail yard</u> , piece of cargo equipment, harbor craft, or ship berth, <u>truck stop or distribution center</u> proposed for upgrade is considered a separate equipment project.
Equipment Project Alternative	“Equipment project alternative” means one or more choices that the local agency may propose to customize the local agency project proposal in its application.
Equipment Project Completion	“Equipment project completion” means the date the local agency determines that all equipment project requirements are completed with the exception of ongoing maintenance, operation, and annual reporting requirements for the new <u>or upgraded</u> equipment. For each equipment project, this includes the liquidation of Program funds and successful post-inspection (including scrappage, if required).
Equipment Project Cost	“Equipment project cost” means the total cost of the equipment project, including State and non-State funding, but excluding administration funds.
Equipment Project Life	“Equipment project life” for each project option in these Guidelines means the length of time an equipment owner is obligated (under an equipment project contract) to maintain and operate the bond-funded equipment according to the requirements of the Program.
Equipment Project Option	“Equipment project option” means the specific mechanism to retrofit, repower, or replace a diesel engine, or provide an alternative power source to reduce emissions of diesel PM and/or NOx. A source category may include multiple equipment project options (e.g., truck retrofit, repower, and replacement are each distinct project options as defined in these Guidelines).

Table 1.4 Definitions (cont.)

Term	Definition
Expenditure	<p><u>“Expenditure” means payment of Program funds. “ARB expenditure” means ARB’s payment of Program funds to a local agency, another State agency, or a contractor; or use of those funds for internal administration. “Local agency expenditure” means a local agency’s payment of Program funds to an equipment owner or a contractor; or use of those funds for internal administration.</u></p>
Fleet size	<p><u>“Fleet size” means the number of diesel-fuel vehicles traveling in California that are registered to be driven on public highways and have a manufacturer’s gross vehicle weight rating of 14,001 pounds or greater that are under common ownership or control [as defined in CCR section 2025 in title 13, article 4.5, chapter 1] by a person, business, or government agency.</u></p>
Freshly Manufactured Locomotive Engine	<p><u>“Freshly Manufactured Locomotive Engine” means, pursuant to Code of Federal Regulations Title 40, Part 92.2, a new locomotive engine which has not been remanufactured.</u></p>
Funding Category	<p><u>“Funding category” means the source category or combination of source categories for purposes of establishing funding targets and competition between equipment projects. For example, the shore power and cargo equipment source categories are combined into a single funding category with a recommended funding target.</u></p>
Goods	<p><u>“Goods” are defined as having the same meaning in Commercial Code section 2105, which essentially requires that:</u></p> <ol style="list-style-type: none"> 1) <u>The goods must be movable.</u> 2) <u>The goods being moved must be part of a transaction that involves a contract for the sale of the goods.</u>
Guidelines	<p><u>“Guidelines” means the <i>Proposition 1B: Goods Movement Emission Reduction Program - Guidelines for Implementation</i> and accompanying Final Staff Report adopted February 28, 2008, and any subsequent amendments to those Guidelines adopted by the Board or enacted via ARB Executive Order.</u></p>
Grant	<p><u>“Grant” (also referred to as “grant funds” and “grant award”) means the Program funding allocated by ARB to a local agency under a Local Agency Project grant agreement (or alternate mechanism for State agencies).</u></p>
Grant Agreement	<p><u>“Grant agreement” means the legally binding agreement between ARB and a local agency.</u> <u>(Also referred to as a Local Agency Project Grant Agreement)</u></p>
Grant Agreement Term	<p><u>“Grant Agreement Term” means the time period identified in a local agency project grant agreement within which a local agency is legally bound to fully implement the local agency project.</u></p>
Grant Expenditure Request	<p><u>“Grant Expenditure Request” means the form used by the local agency to request Program funds from ARB.</u></p>
Independent Owner Operator	<p><u>“Independent Owner Operator” means a person who both owns a single heavy-duty diesel truck and personally operates that truck to haul goods.</u></p>
Interagency Agreement	<p><u>“Interagency Agreement” mean the legally binding agreement between ARB and a State agency.</u></p>

Table 1.4 Definitions (cont.)

Term	Definition
Liquidation	<u>“Liquidation” means the full expenditure of all Program funds in an executed grant agreement or equipment project contract.</u> “ARB liquidation” means the full expenditure of all Program funds identified in an executed local agency project grant agreement. “Local agency liquidation” means the full expenditure of all Program funds identified in an executed equipment project contract.
<u>Loan or Loan Guarantee Program – State agency</u>	<u>“Loan or Loan Guarantee Program” means a program established by a State agency to assist equipment owners to obtain financing to retrofit or replace heavy-duty trucks.</u>
Local Agency	“Local agency” means an eligible applicant or recipient of Program funds from ARB. <u>For the purpose of administering a loan or loan guarantee program, a State agency may be considered a local agency.</u> A local agency that is administering Program funds under an executed grant agreement is also referred to as a recipient agency in SB 88.
Local Agency Board/ Commission	“Local agency board/commission” means the popularly elected or appointed governing body of a local public entity.
Local Agency Project	“Local agency project” means the <u>funding source</u> category-specific incentive program that the local agency proposes to implement with Program funding. The local agency project may include one or more equipment project options within the same source category.
Local Agency Project Implementation Approach	“Local agency project implementation approach” means the mechanism(s) a local agency may propose to implement one or more equipment project options. For example, as part of a single local agency project, a port may propose to employ three contractors to run truck replacement programs – one focused on a lease-to-own program for diesel trucks, one on leasing natural gas trucks, and one on offering grants to truck owners for purchase of new trucks. Each of these <u>mechanisms</u> are implementation approaches.
Local Public Entity	A “local public entity” means a county, city, district, public authority created by statute, public agency, and any other political subdivision in the State. Local public entities do not include states or the federal government.
<u>Locomotive Remanufacture</u>	<u>“Locomotive remanufacture” means one or more of the following, pursuant to Code of Federal Regulations Title 40, Part 92.2(1):</u> <u>(i) To replace, or inspect and qualify, each and every power assembly of a locomotive or locomotive engine, whether during a single maintenance event or cumulatively within a five-year period;</u> <u>(ii) To upgrade a locomotive or locomotive engine;</u> <u>(iii) To convert a locomotive or locomotive engine to enable it to operate using a fuel other than it was originally manufactured to use;</u> <u>(iv) To install a remanufactured engine or a freshly manufactured engine into a previously used locomotive.</u>
<u>Locomotive Repower</u>	<u>“Locomotive repower” means, pursuant to Code of Federal Regulations Title 40, Part 92.2, replacement of the engine in a previously used locomotive with a freshly manufactured locomotive engine.</u>

Table 1.4 Definitions (cont.)

Term	Definition
Match Funding	"Match funding" means the non-Program funds used in conjunction with Program funds to fully fund proposed local agency and equipment projects. These may include monies from private, local, other State, and federal sources, except as otherwise provided under these Guidelines or local, State, and federal law.
<u>Middle-Aged Truck</u>	<u>For the purposes of a three-way truck transaction, a "middle aged truck" means a truck with a MY1998-2006 engine.</u>
<u>Model Year (MY) 2007 Truck Emissions Levels</u>	<u>"MY2007 emissions levels" for trucks are defined as emissions of 1.20 grams per brake horsepower-hour (g/bhp-hr) or less of NOx (FEL and CERT values), and 0.01 g/bhp-hr or less of PM (CERT value), as certified by the most recent ARB Executive Order for on-road use with an intended service of Heavy-Heavy Duty Diesel for diesel engines or Heavy Duty Otto for applicable alternative fuel vehicles certified by the U.S. Environmental Protection Agency (U.S. EPA) or ARB.</u>
<u>Model Year (MY) 2010 Emissions</u>	<u>"MY2010 emissions" for trucks are defined as CERT and FEL emissions of 0.20 g/bhp-hr or less of NOx (FEL and CERT values), and 0.01 g/bhp-hr or less of PM (CERT value), certified by the most recent ARB Executive Order for on-road use with an intended service of Heavy-Heavy Duty Diesel for diesel engines or Heavy Duty Otto for applicable alternative fuel vehicles.</u>
Non-performance	"Non-performance" means the act of not completing one or more components of an executed local agency project grant agreement or equipment project contract.
Not Otherwise Required by Law or Regulation	<p>"Not otherwise required by law or regulation" means the emission reductions are not required pursuant to any local, State, or federal law, rule, or regulation; any requirements imposed by the California Environmental Quality Act (CEQA); or any requirements imposed by a legal instrument such as a legal settlement or consent decree (collectively referred to as "law or regulation").</p> <p>For purposes of this Program only, "not otherwise required by law or regulation" does not apply to any tariff, ordinance, or other requirement imposed by a local agency based on that local agency's authority as a market participant or municipal proprietor or the local agency's authority to enter into contracts with equipment owners and operators.</p>
Notice of Funding Availability	"Notice of Funding Availability (NOFA)" is defined by statute as ARB's public announcement to begin solicitation of local agency project applications.
Obligation	<p>"ARB obligation" means the <u>initial award of Program funds by the Board to specific local or State agency projects, followed by execution of a grant agreement between ARB and a local agency or an interagency agreement between ARB and another State agency.</u> "Local agency obligation" means the execution of an equipment project contract between a local agency and equipment owner. "State agency obligation" means the commitment of specific Program funds for truck loan and guarantee programs.</p> <p><u>Board adoption of a resolution awarding funds via specific, named grant or interagency agreements to local or State agencies shall satisfy State requirements to encumber funds within one year of the date of appropriation.</u></p> <p>(Obligation is also commonly referred to as "encumbrance").</p>

Table 1.4 Definitions (cont.)

Term	Definition
<u>Old Truck</u>	“ <u>Old truck</u> ” means a truck with a MY1993 or older engine for the purpose of the <u>three-way truck transaction</u> .
Program	“Program” means the Goods Movement Emission Reduction Program, except as otherwise noted.
<u>Program Funds</u>	“ <u>Program funds</u> ” means the combination of both project and administrative <u>funds</u> .
<u>Project Benefits Calculator</u>	“ <u>Project Benefits Calculator</u> ” or “ <u>Calculator</u> ” means an analytical method and <u>inputs provided by ARB to estimate the emission reductions and cost-effectiveness of proposed projects</u> .
<u>Project Funds</u>	“ <u>Project funds</u> ” means the funds used directly to upgrade equipment – it does not include funds used by ARB, local agencies, or other State agencies for <u>administration of the Program</u> .
<u>Recaptured Funds</u>	“ <u>Recaptured funds</u> ” means Program funds newly eligible for distribution or <u>redistribution prior to any statutory reversion requirements</u> .
Recipient Agency	“Recipient agency” means the local agency <u>or State agency</u> that receives Program funds under an executed grant agreement, <u>interagency agreement, or other mechanism (for ARB)</u> .
Replacement	“Replacement” means the act of replacing <u>a higher-emitting diesel vehicle(s), a piece of diesel equipment, or diesel harbor craft with a lower-emitting vehicle, piece of equipment, or craft (i.e.e.g., replacement of an <u>one or two</u> old trucks with a new one)</u> .
Repower	“Repower” means the act of replacing a higher-emitting diesel engine with a new or remanufactured, lower-emitting engine in the same vehicle, piece of equipment, or harbor craft.
Retrofit	“Retrofit” means the act of adding emission control technology or modifying an engine on an existing diesel vehicle, piece of diesel equipment, or diesel harbor craft. The project specifications may require that this technology be an ARB Verified Diesel Emission Control Strategy.
State Implementation Plan	“State Implementation Plan” or SIP means the air quality plan adopted by ARB and local air districts (as applicable) that demonstrates how each region will attain or maintain national ambient air quality standards, as required by the federal Clean Air Act section 110.
Source Category	“Source Category” means a discrete category of emission sources specific to this Program. A source category may contain multiple equipment project options. Under this Program, source categories include: : trucks serving ports and intermodal rail yards, other heavy duty diesel trucks, truck stop/distribution centers electrification, locomotives, shore power for ships at berth, cargo handling equipment at ports and intermodal rail yards, and commercial harbor craft. To establish funding targets and promote appropriate competition between projects, ARB may combine multiple source categories within a “funding category.”
<u>Three-way Truck Transaction</u>	“ <u>Three-way truck transaction</u> ” means the act of replacing a middle-aged truck <u>with a new truck; installing a retrofit on the middle-aged truck and using it to replace an old truck; and scrapping the old truck</u> .

Table 1.4 Definitions (cont.)

Term	Definition
Trade Corridor	<p>“Trade corridor” means any one of the four following regions in California:</p> <p>Bay Area, consisting of: San Francisco Bay Area Air Basin (CCR Title 17 §60101)</p> <p>Central Valley, consisting of: San Joaquin Valley Air Basin (CCR Title 17 §60107) Sacramento Metropolitan Federal Ozone Nonattainment Area (40 CFR Part 81 §81.305, p.23886-23887, Apr 30, 2004)</p> <p>Los Angeles/Inland Empire, consisting of: South Coast Air Basin (CCR Title 17 §60104) Port Hueneme in Ventura County</p> <p>San Diego/Border Region, consisting of: San Diego County (Government Code §23137) Imperial County (Government Code §23113)</p>
Verified Diesel Emission Control Strategy	<p>“Verified Diesel Emission Control Strategy (VDECS)” means an emission control strategy, designed primarily for the reduction of diesel PM emissions, which has been verified pursuant to the “Verification Procedure for In-Use Strategies to Control Emissions from Diesel Engines” in title 13, California Code of Regulations, commencing with section 2700.</p> <p>(Note: ARB has separate procedures to verify control devices for stationary sources.)</p>

II. ARB Program Administration

This chapter identifies the proposed requirements for ARB to administer the Program. ~~SB 88 State law~~ requires that the Board hold public hearings, adopt ~~Program~~ Guidelines, and adopt a final list of local and State agency projects that will receive funding from each appropriation. ARB staff shall implement the Board's direction as defined in Board resolutions, the Guidelines, and the list of local agency projects to be funded.

ARB staff's duties to administer the Program shall include, but are not limited to: developing the proposed Guidelines and project specifications; issuing the Notice of Funding Availability (NOFA); soliciting, reviewing and recommending local and State agency projects for funding; executing and implementing grant agreements with local agencies and interagency agreements with other State agencies; auditing local and State agency projects; tracking and reporting on progress in expending funds and achieving performance milestones; developing and maintaining a public website on the Program; and conducting workshops and other forms of outreach to seek public input on Program design and implementation.

A. Program Guidelines

As required by ~~SB 88 State law~~, ARB shall developed and adopted the initial ~~Program~~ Guidelines and 2008 Staff Report in a public process at the February 28, 2008 Board meeting. The Guidelines shall include, at a minimum, all of the following:

- An application process for the funds, and any limits on administrative costs.
- Requirements that local agencies identify the useful life of the project and project delivery milestones as part of the application process.
- Criteria for selection of local and State agency projects and equipment projects.
- Requirements for match funding.
- The method by which ARB will consider the air basin's status in achieving state and federal air quality standards.
- Requirements that grant agreements between ARB and local agencies, and interagency agreements with other State agencies, identify project milestones, and remedies for failure to meet project milestones.
- Accountability and auditing requirements, including provisions for audit of project expenditures and outcomes.

Following each appropriation of Program funds to ARB, staff shall develop, and the Board will consider adoption of, any appropriate updates to these ~~Program~~ Guidelines prior to issuing the ~~Notice of Funding Availability~~ NOFA for that funding cycle. ARB staff shall evaluate the progress of the Program and any changes needed to improve its effectiveness, plus advances in technology and updated equipment costs that create a need to revise the list of equipment project options. ARB staff shall provide adequate opportunity for public input, including release of any proposed updates to these Guidelines for public review prior to Board consideration at a noticed public hearing.

These Guidelines are designed and intended to effectuate the provisions of SB 88, and AB 201, and AB 892. However, in the event a provision of these Guidelines conflicts with either SB 88 or AB 201 these bills, or any other statute enacted to implement Proposition 1B, the relevant statutory provisions shall control.

1. ARB staff clarification of Program requirements

During Program implementation, specific issues may arise that require ARB staff to interpret or clarify these Guidelines. ARB staff clarifications will be made available at <http://www.arb.ca.gov/gmbond> to assist local agencies with Program implementation.

2. Provisions that do not apply to projects receiving FY2007-08 funds

ARB staff evaluated the 2008 Guidelines, including project specifications, and developed updates. The changes in the updated 2010 Guidelines apply to projects receiving FY2007-08 funds, with the exception of the provisions listed in Table II.

Table II.1 Provisions that Do Not Apply to Projects Receiving FY2007-08 Funds

<u>Provision</u>	<u>Description</u>
<u>Equipment Project Specifications (Appendices A-F)</u>	<u>Appendix F shows applicable specifications for FY2007-08 funded projects. The specifications shown in Appendices A-E apply only to projects receiving FY2008-09 and later funds.</u>
<u>New Compliance Check Option (Chap. IV.A.8.)</u>	<u>A local agency may not allow applicants in a solicitation, for FY2007-08 funds to correct pollution citations that were outstanding at the time of application to avoid disqualification.</u>
<u>Project Alternatives for Local Agencies (Chap. III.C.)</u>	<u>Local agencies administering FY2007-08 funds shall implement the approved project alternatives described in their grant agreements, despite any changes to those alternatives in these Guidelines.</u>
<u>Equipment Project Contract Requirements (Chap. IV.A.11)</u>	<u>Local agencies administering FY2007-08 funds are not required to amend equipment project contracts to include any additional provisions required in these Guidelines.</u>
<u>Local Agency Timelines for Obligation and Expenditure of Funds (Chap. II.F. and IV.B.)</u>	<u>FY2007-08 funds must be obligated and expended by local agencies according to the timelines defined in the grant agreement, including any amendment(s). FY2008-09 and later funds shall be obligated and expended according to the schedules in these Guidelines.</u>
<u>Local Agency Administration Funds (Chap. II.F.)</u>	<u>Local agency administration funds for projects receiving FY2007-08 funds are set on the schedule and at the level defined in the grant agreement, and may not be accelerated or increased to higher levels based on these Guidelines.</u>
<u>State Agency Loan or Loan Guarantee Program (Chap. II.D.)</u>	<u>FY2007-08 funds may not be used for loan or loan guarantee programs.</u>

B. Program Funding Targets and Priorities

~~ARB staff shall propose and~~ The Board may approved funding targets for each trade corridor and each source category or groups of categories (referred to as a funding category) ~~to~~ These targets provide overall direction on the Program and guide each trade corridor in the development of viable project proposals. Such targets can ensure that all of the statutory criteria are effectively implemented in a straightforward and transparent manner. ~~Any such~~ These targets shall do not commit the Board to specific allocations in future years and ~~shall not be~~ are not considered a programming of funds to specific local agency projects. Funding for local agency projects in each individual funding cycle ~~shall be~~ is responsive to priorities established by the Board and may not be directly proportional to the targets. ARB staff shall recommend funding levels for local (and State) agency projects that are designed to reach the targets over the course of the entire \$1 billion Program.

1. Trade corridor funding targets

While SB 88 does not explicitly require an allocation by trade corridor, it does direct ARB to identify a means to consider an air basin's attainment status for State and federal air quality standards and its health risk from goods movement. ARB staff believes this is most efficiently and effectively done by targeting funding to each trade corridor based on population, goods movement emissions, and federal attainment needs. These targets also ensure that California residents in each defined trade corridor see benefits from the Program. Finally, such targets facilitate a transparent and open discussion of the optimum funding splits to reduce the contribution of goods movement sources to each region's toughest air pollution challenges. The 2008 Staff Report describes the basis for the ~~proposed~~ targets.

The ~~proposed~~ funding targets for each trade corridor, including all State and local Program administration funds, are:

<u>Dollars</u>	<u>Trade Corridor</u>
• \$550 million:	Los Angeles/Inland Empire trade corridor
• \$250 million:	Central Valley trade corridor
• \$140 million:	Bay Area trade corridor
• \$ 60 million:	San Diego/Border trade corridor

Since this Program looks at the trade corridors as part of a single goods movement system for California, local agencies administering bond monies shall be required to fund projects based on the total emission reductions expected in the State (not just their local area). The majority of the travel or operation must be in one or more of the trade corridors. Regions like the San Joaquin Valley with high through-truck and rail traffic will benefit from projects administered by local agencies in other trade corridors.

The funding for trucks serving ports and intermodal rail yards (allocated to the corridors where those facilities are located) will be available for all California trucks focused on

that service, regardless of their home base. Thus, cleanup funds allocated to the Bay Area for the Port of Oakland may go to trucks carrying agricultural products to and from the Valley. Likewise, funds for the ports in the Los Angeles area may go to trucks based in the San Diego/Border region.

2. Source Category funding targets

SB 88 recognizes the need for projects to compete against others in the same ~~source~~ funding category, not against projects in other funding categories. To implement this approach, set portions of the funding ~~shall be~~ are-targeted to each funding category, which may include one or more source categories. ~~Source-Category~~ Source-Category funding targets support the reduction in local and regional health risk from goods movement as a primary consideration. The 2008 Staff Report describes ~~the~~ the basis for the original ~~proposed~~-targets, and the 2010 Staff Report describes the basis for the revisions.

The ~~proposed~~ targets for each funding category, including all State and local Program administration funds, are:

<u>Dollars</u>	<u>Funding Category</u>
<u>\$700 million:</u>	<u>Heavy duty diesel trucks that haul goods, plus any truck stop or distribution center electrification.</u>
\$400 million:	Heavy duty diesel trucks serving seaports and intermodal rail yards.
\$360 million:	Other heavy duty diesel trucks that haul goods, plus any truck stop or distribution center electrification.
\$100 million:	Diesel freight locomotives.
<u>\$160 million:</u>	Shore power for eCargo ships at berth, plus cargo handling
\$100 million:	equipment used at a port or intermodal rail yards.
\$ 40 million:	Commercial harbor craft.

3. **Priorities for FY2007-08 funds**

~~ARB staff proposes that~~ The Board adopted these priorities for FY2007-08 funds:

- Eligible projects that can quickly begin implementation and deliver air quality results. This is consistent with statutory direction to give priority to projects that achieve the earliest possible reduction of health risk in heavily impacted communities. These could be communities with high risks due to nearby goods movement facilities or communities impacted by high regional pollution levels from goods movement emissions.
- Truck retrofit projects to add diesel particulate filters for immediate, broad scale, cost-effective risk reduction in many communities. Based on the implementation schedules in related truck regulations, we expect that these projects would only be eligible for FY2007-08 funding.

- Port truck replacement projects in the Los Angeles/Inland Empire corridor to continue supporting the Port of Los Angeles and the Port of Long Beach clean truck tariff programs. These ports are requiring that all drayage trucks serving the ports be replaced (with models meeting 2007 emission standards) between late 2008 and the end of 2011. This schedule means any financial assistance from the Program needs to come in the early years.

4. Priorities for FY2008-09 and FY2009-10 funds

ARB staff proposes that the Board adopt these priorities for FY2008-09 and FY2009-10 funds:

- Truck upgrade projects to quickly reduce the health risk in communities near high truck-traffic freeways, warehouse/distribution centers, ports, and rail yards. These projects also provide significant reductions to help meet federal air quality standards for regional air pollutants, including PM2.5 and ozone. This is consistent with statutory direction to give priority to projects that achieve the earliest possible reduction of health risk in heavily impacted communities. To support cost-effective early compliance with ARB's truck rules, the truck funds need be front-loaded.
- Locomotive projects to cut the elevated, excess cancer risks in neighborhoods near rail yards, as identified in ARB's health risk assessments. The California State Implementation Plan relies on incentives and other mechanisms to accelerate the introduction of cleaner locomotives and/or engines to attain federal PM2.5 and ozone standards in the South Coast and San Joaquin Valley.
- Ships at berth projects to further reduce diesel pollution in port-side communities and greenhouse gas emissions. To comply with the January 2014 requirements of ARB's rule, these multi-year projects to install electric infrastructure to provide shore-based power to ships at berth must begin soon. With incentives, some of these installations may be able to begin operation early and to achieve extra reductions each year through greater use.

C. Project Specifications and Emissions

1. Project specifications for each funding cycle

Appendices A-~~E~~ of these Guidelines detail the ~~proposed~~ equipment project options for ~~FY2007-08 funds~~, including upgrade specifications, funding caps, minimum project life, and key operating conditions. For reference purposes, Appendix F provides the equipment project specifications that apply only to projects receiving FY2007-08 funds. Local agencies can choose to propose projects for any or all of the funding categories ~~from all of the options in a category, or just a subset of these options,~~ to best address the air pollution problem in that trade corridor. For future appropriations and updates to these Guidelines, ARB staff shall also consider the funding demand for eligible project

options, technology advances and costs, regulatory actions, the need for equipment eligibility and project requirements, and other new information.

SB 88 identifies projects eligible for funding to include:

- The replacement, repower, or retrofit of heavy-duty diesel trucks.
 - *The equipment project options for FY2007-08 Program funds include all of these approaches.*
- The replacement, repower, or retrofit of diesel locomotive engines, with priority given to switching locomotive engines.
 - *The equipment project options for FY2007-08 funds include replacement and repower approaches. The new options include replacement, rebuild, repower, and retrofit approaches, as well as an emerging locomotive emissions capture and control system. ~~Retrofit devices and a stationary system to capture and control locomotive emissions in the rail yard are in development – once these technologies are demonstrated, verified by ARB for effectiveness and durability (if applicable), and become commercially available, ARB staff will evaluate them for addition to the list of project options for subsequent funding cycles.~~*
- The provision of on-shore electrical power for ocean freight carriers calling at the State's seaports to reduce the use of auxiliary and main engine ship power.
 - *The equipment project options for FY2007-08 Program funds include this type of technology.*
- Mobile or portable shoreside distributed power generation projects that eliminate the need to use the electricity grid.
 - *The equipment project options for FY2007-08 Program funds include this type of technology, as well as an emerging ship emissions capture and control system.*
- The replacement, repower, or retrofit of harbor craft that operates at the State's seaports.
 - *The equipment project options for FY2007-08 Program funds include replacement and repower approaches. ~~Once retrofit devices~~ The new options also include replacement and retrofit with hybrid technology. ~~are demonstrated, verified by ARB for effectiveness and durability (if applicable), and become commercially available, ARB staff will evaluate them for addition to the list of project options for subsequent funding cycles.~~*
- The replacement, repower, or retrofit of cargo handling equipment that operates at the State's seaports and rail yards.
 - *ARB's adopted regulation for diesel cargo handling equipment operating at ports and intermodal rail yards requires this equipment to be upgraded to emission levels achievable through replacement or (possibly) repower. To ensure that the eligible projects in this category meet the statutory requirement to reduce emissions not otherwise required by law or regulation, and are cost-effective, the equipment project options for FY2007-08 funds include only retrofit of energy storage systems for rubber-tired gantry cranes that already comply with the ARB rule. ~~ARB will consider expanding the project options for the next funding cycle to include removal of the existing diesel engine and installation of electric power for these same cranes.~~ The new options include the repower of rubber-tired*

gantry cranes with an electric or zero-emission power system, and replacement of certain yard trucks with electric or zero-emission yard models that will reduce emissions beyond the requirements of the regulation.

- Electrification infrastructure to reduce engine idling and use of internal combustion auxiliary power systems at truck stops, intermodal facilities, distribution centers, and other places where trucks congregate.
 - *The equipment project options for ~~FY2007-08-Program~~ funds include this technology.*

Following each appropriation of Program funds to ARB, ARB staff shall evaluate and recommend for Board adoption specifications for equipment project options eligible to compete for funding in that cycle. These options must be able to cost-effectively reduce emissions and health risk with a high degree of certainty. ARB staff shall assess the list of emission reduction projects identified in SB 88 for technical feasibility, emission reduction potential, and cost. ARB staff shall also consider other effective technology that is verified, available, and can be widely deployed to reduce emissions quickly.

~~ARB staff proposes that~~ Certain types of projects or activities shall not be eligible for funding under the Program. Such ineligible projects or activities include, but are not limited to:

- Projects to design, acquire rights-of-way, perform environmental review, build, improve, or operate transportation infrastructure (like roads, bridges, or interchanges; rail yards, tracks or sidings; rail or highway tunnel widening; railroad crossing grade separations; ship channel dredging; etc.).
- Projects to design, acquire rights-of-way, perform environmental review, build, improve, or operate intermodal transfer or distribution centers (also called inland ports), except for electrification infrastructure to reduce engine idling and use of internal combustion auxiliary power systems at truck stops, intermodal facilities, distribution centers, and other places where trucks congregate.
- Scientific or technical research and development activities, including programs to perform emissions testing on new technology.
- Business plan development or implementation.
- Equipment, vehicles, or ship berths owned or leased by the federal government, including the military.
- Fuel or electricity purchases.
- Operation and maintenance costs.
- Legal costs.
- Permit fees or taxes.
- Any other projects that cannot meet all of the requirements of these Guidelines.

The timing and resource demands to get ~~FY2007-08-Program~~ funds obligated effectively preclude case-by-case consideration of projects ~~for this funding cycle~~. If a local agency supports demonstration of a cost-effective technology or approach that is consistent with the statute, ARB staff will evaluate that technology for possible inclusion in the defined equipment project options in the next update to these Guidelines.

2. Quantifying project benefits

a) *Pollutants*

SB 88 identifies specific pollutants that are targeted for emission reductions under the Program:

- Diesel particulate matter (diesel PM), which ARB identified as a toxic air contaminant.
- Nitrogen oxides (NO_x) and sulfur oxides (SO_x) that contribute to fine particles (PM_{2.5}) formed in the atmosphere.
- NO_x and reactive organic gases (ROG) that form ozone in the atmosphere.

SB 88 also adds reductions in greenhouse gases as a criterion to consider in evaluating which projects to fund.

As part of simplifying the Program, ~~ARB staff recommends quantifying the Guidelines require quantification of~~ diesel PM and NO_x emissions and the resulting reductions from bond-funded projects. These are the two most consistently important pollutants to reduce the health impacts from goods movement in all four trade corridors, and the most likely to differ between competing proposals within the same source category.

Of the targeted source categories, only ships are still significant sources of SO_x emissions. Shore power projects to reduce ship emissions at dock will effectively cut this pollutant. It is not necessary to quantify the SO_x emission reductions from each competing shore power project. Comparing the reductions in diesel PM and NO_x emissions is an adequate basis to assess shore power project proposals relative to others in the same source category. Diesel engines emit ROG, but emission levels are typically less than 1/10 of the NO_x emissions and also should not be a determining factor in project selection.

ARB staff considered greenhouse gas emissions in recommending the source category funding targets, specifically the amount allotted for shore power and cargo handling equipment projects that reduce fuel consumption. Since projects are competing within ~~source-funding~~ categories, there is not a need to quantify greenhouse gas reductions from individual projects to support the competitive process.

b) *Project benefits calculators*

ARB staff shall develop and make available on the Program website at: <http://www.arb.ca.gov/gmbond> a Project Benefits Calculator (Calculator) for each source category eligible for funding under these Guidelines ~~with one exception. Projects to install electrification infrastructure to reduce engine idling and use of internal combustion auxiliary power systems at truck stops, intermodal facilities, distribution centers, and other places where trucks congregate must be individually evaluated to determine the appropriate quantification method in consultation with the local air district~~

~~and ARB.~~ These Calculators shall provide the basis for local agencies to quantify the emission reductions and cost-effectiveness of proposed local agency projects. If a local agency identifies an eligible local agency project that cannot be quantified with the Calculator for that source category, the local agency should contact ARB staff for guidance. The Calculators shall also provide the basis for local agencies and equipment owners to quantify the emission reductions and cost-effectiveness of proposed equipment projects. Over time, ARB staff shall build the emission reductions and cost-effectiveness calculator functions into the Goods Movement Online Database.

D. Provision for Truck Loan or Loan Guarantee Programs

ARB may make funding available for loan or loan guarantee programs. For the purpose of administering a loan or loan guarantee program (loan project) only, an applicant may be any State agency, including ARB. H&S §39625.1(a).

Funds for a loan project may be provided from bond proceeds or through recaptured funds. For any loan project, ARB or other State agency may administer the program directly or may use contractors, such as established non-profit organizations, commercial lenders, truck financing companies, community development banks, and small business assistance entities, to administer the program. Any use of an external contractor requires the State agency to comply with applicable State contracting requirements.

The intent of offering Program funds for loan projects is to provide financial assistance and expand financing opportunities for owners of smaller truck fleets who are experiencing difficulty in obtaining financing to upgrade or replace their vehicles with cleaner technology.

Loan programs may include:

- Direct loans (Program funds are used to make a loan directly to the equipment owner).
- Loan guarantees (Program funds are used to create a loan loss reserve to guarantee a loan made by a lender).
- Loan or interest rate subsidies (Program funds are used to buy down the interest rate).
- Lease-to-own (Program funds are used to subsidize a leasing program where the lessee (truck owner) takes ownership of the vehicle at the end of the lease).

The California Pollution Control Financing Authority's (CPCFA) California Capital Access Program (CalCAP), a form of loan portfolio insurance, is an example of a loan guarantee program. ARB's Providing Loan Assistance for California Equipment (PLACE) is an example of a program that provides both loan and loan guarantee programs utilizing partnerships with a State agency and contractors.

State agencies may apply for Program funds for loan projects that may include one of the above described options or a similar program for equipment owners to retrofit or replace trucks.

Because there are many options and ways to implement a loan project, ARB requires that any proposed loan project meet the following conditions:

- Use funds to upgrade or replace eligible diesel trucks according to the project specifications in Appendix A.
- Adhere to any financial terms and conditions established by ARB staff in the grant or interagency agreement, which may include interest rate, loan term, and minimum credit requirements.
- Funds used for direct loans or lease-to-own projects must be used to implement a sustainable project (repayments will be used to provide additional loans or leases).
- Funds used for loan guarantees must provide a minimum leverage established by ARB.

The Executive Officer has the authority to approve the structure and conditions of any proposed loan project to provide increased assistance to independent owner-operators and smaller trucking fleets.

See Chapter V for State agency implementation requirements.

D. ~~Application Process for Local Agency Projects~~

E. ARB Process to Award Funds to Local and State Agencies

1. Notice of funding availability

ARB staff shall issue a notice of funding availability (NOFA) no later than November 30th of each fiscal year in which funds are appropriated or reappropriated by the Legislature, unless staff determines that the Guidelines should be updated for those funds. For FY2007-08 funding, ARB shall issue the NOFA within two weeks of Board adoption of the Program Guidelines. For FY2008-09 and FY2009-10 funding, ARB shall issue the NOFA following Board adoption of the update to the Guidelines, consistent with state fiscal policy.

The NOFA shall include:

- Registration instructions for local public entities seeking Program funds, including concurrent submittal of a demonstration that the local public entity qualifies as an applicant for Program funds.
- Submittal instructions and schedule for local agency project applications.
- The requirement that each applicant hold at least one community meeting prior to submittal of the local agency project application to ARB (see Chapter III.D.3-4).

~~2. Registration of local public entities~~
2. Qualification of applicants

~~A “local public entity” is defined to include a county, city, district, public authority created by statute, public agency, and any other political subdivision in the State. Local public entities do not include states or the federal government. The statute requires an applicant for Program funds to be both a local public entity and one that is involved in the movement of freight through trade corridors or involved in air quality improvements associated with goods movement.~~

The statute requires an applicant for Program funds to be both a local public entity and one that is involved in the movement of freight through trade corridors or involved in air quality improvements associated with goods movement. For the purpose of administering a loan or loan guarantee program only, an applicant may include any State of California agency. Local public entities do not include states or the federal government. A “local public entity” is defined to include a county, city, district, public authority created by statute, public agency, and any other political subdivision in the State.

The first step in the application process is for a local public entity to register with ARB through the process described in the NOFA ~~to obtain access to the electronic application form~~. ARB shall staff verify the status of the local public entity and provide access to the electronic application form for each verified local public entity.

~~a) Qualification as an applicant (moved from Chapter II.D.3.b)~~

Concurrent with the registration, the local public entity will also provide its qualifications for eligibility as a Program applicant so that ARB staff can begin the initial review of this demonstration.

ARB staff shall assess each local public entity’s qualifications to determine if that entity meets the requirements of the statute and the Guidelines for applicants. ARB staff may request that the local public entity provide additional documentation to support this assessment.

A local public entity that qualifies as a Program applicant may also be referred to as an applicant local agency or a local agency.

~~Note: Since the applications will require an extensive investment of time and resources by the local public entity, ARB staff encourages each entity to consult early with staff regarding its ability to meet the requirements of the statute and the Guidelines to qualify as an applicant.~~

~~3. ARB review of applicant and project eligibility~~
3. Review of local and State agency applications

ARB staff shall complete an initial review of each local and State agency project application to verify that ~~the local public entity qualifies as an applicant and that the~~ proposed project is consistent with these Guidelines and is eligible to compete for funding.

ARB staff shall notify any local and State agency ~~public entity~~ that does not meet all of the requirements of paragraphs (a)-(g-h) of this section within 20 business days of ARB receipt of the completed application package. Notification may occur via letter or email to the designated local or State agency ~~public entity~~ contact, at staff's discretion.

ARB staff shall evaluate any deficiencies and determine, at staff discretion, whether to disqualify the application or pursue ~~updates~~ resolution of any deficiencies with the local or State agency ~~public entity~~.

ARB staff shall post a list of eligible local and State agency project applications on ARB's the Program website for public review no later than 30 days after local and State agency project applications are due to ARB.

a) *Completeness*

ARB staff shall review a local or State agency project application to determine whether all required information is included in the application ~~packet~~. At a minimum, ARB staff will verify that the application is complete and includes a copy of the local agency board/commission resolution.

~~b) Qualification as an applicant (moved to Chapter II.E.2.a)~~
b) *e) Consistency with legal and equipment project specifications*

ARB staff shall review the local or State agency project application and assess the ~~local~~ agency's certification that the proposed project achieves emission reductions "not otherwise required by law or regulation." ARB staff shall also evaluate whether the proposed project conforms to the specifications for the desired funding category of one or more equipment project options for that source category. Proposals that combine multiple source funding categories or that would allow emissions, equipment, technology, or Program funding levels that are inconsistent with one or more equipment project options defined in these Guidelines are subject to disqualification.

In addition, for any local agency project to retrofit, repower, or replace locomotives operated by the Class I railroads, ARB shall evaluate whether the emission reductions that would be achieved by the locomotive equipment project are or are not necessary to satisfy any mandated emission reduction requirement under an agreement between a railroad company and a state or federal agency, or a local air district. ARB must find

that the emission reductions are not necessary to determine that the local agency project is eligible to compete for funding. H&S §39625.5(a)(2)(B).

c) ~~d) Consistency with air quality plans for goods movement~~

ARB staff shall assess the local or State agency project application to determine if it meets the requirement for consistency with local and regional plans (or regional elements of statewide plans) to reduce emissions from goods movement.

d) ~~e) Availability of full funding~~

ARB staff shall assess the local or State agency project application to determine if it clearly identifies the source(s) of any State and non-State matching funds, and demonstrates that these funds are reasonably available within the timeframes of the local agency project schedule.

e) ~~f) Project schedule and milestones~~

ARB staff shall assess the local or State agency project application to determine if it identifies the required project milestones and includes a demonstration of the local agency's ability to meet the timelines of these Guidelines for fund obligation and expenditure.

f) ~~g) Data to determine air quality benefits and cost-effectiveness~~

ARB staff shall evaluate the local or State agency project application to verify that it includes sufficient data on ~~equipment, project life, and project option(s), if applicable,~~ to support and document the local agency's calculation of the emission reduction factor and cost-effectiveness and match factor for the proposed project.

g) ~~h) Local agency Project implementation demonstration~~

ARB staff shall evaluate the local or State agency project application to determine if it effectively demonstrates that the local agency is prepared to administer the proposed project consistent with the detailed provisions of Chapter IV III.D-Local Agency Project Implementation or Chapter VI. State Agency Project Implementation Requirements. ~~This demonstration shall include a description of how the local agency will structure its program to meet each requirement summarized below, including substantive detail (wherever possible) regarding the procedures the local agency will use to implement each provision.~~

- ~~• Support public participation.~~
- ~~• Conduct marketing and solicit equipment project applications (including targeted outreach and assistance to independent truck owner operators)~~
- ~~• Review and competitively rank project applications (including web posting).~~

- ~~Select equipment projects for funding (including any local board/commission process).~~
- ~~Conduct equipment pre-inspections and compliance checks.~~
- ~~Notify equipment owners of the status of their application.~~
- ~~Execute equipment project contracts.~~
- ~~Ensure equipment scrappage where required.~~
- ~~Conduct post-inspections of new or upgraded equipment.~~
- ~~Request expenditures from ARB.~~
- ~~Process invoices and requests from equipment owners for payment including direct payments to vendors and reimbursements.~~
- ~~Calculate and report earned interest.~~
- ~~Evaluate equipment projects and assess on-going compliance with contract conditions.~~
- Provide required reports to ARB (including the ability to submit equipment project data electronically when requested).
- Participate in Program and fiscal audits.

~~ARB staff shall also rely on this demonstration in its evaluation of the local agency's ability to deliver the proposed project scope (see Chapter II.D.4 below) and its overall determination of a local agency's readiness to quickly begin implementation and deliver air quality results (see Chapter II.B.3, Priorities for FY2007-08 Funds).~~

4. ARB evaluation of local or State agency capability to implement the project scope

ARB staff shall also assess the local or State agency project application to determine if it affirmatively demonstrates that the local or State agency has or will have the necessary expertise and resources in place to meet the demands of the proposed project scope, within the timelines established by these Guidelines.

ARB staff will examine the local or State agency's documented statistics or other basis for establishing the relationship between the number of pieces of equipment that can be upgraded in a given timeframe and the number of program staff needed to accomplish those upgrade projects. ARB staff will rely on the documentation provided by the local or State agency and ARB's experience with this Program, the Carl Moyer Program and other incentive programs to assess the adequacy of the proposed staff resources. If ARB staff determines that the local or State agency has demonstrated the ability to handle the project type, but only at a lesser scope or scale than proposed, staff may identify an alternative scope.

For example, a local agency may propose to replace 5,000 trucks, but only demonstrate the resources and ability to process 2,000 trucks within the timelines established in these Guidelines. ARB staff may disqualify the application or recommend that the project go forward to the competitive process with a scope of 2,000 truck replacements (at a pro-rated funding level).

If ARB staff determines that only a lesser scope is feasible based on the local agency's demonstration, ARB staff will notify the designated local agency representative in writing and move the project forward to the competitive process based on the benefits of the pro-rated proposal for the source-funding category. ~~In the FY2007-08 funding cycle,~~ ARB staff shall assume local agency support for a pro-rated proposal based on the acknowledgement required on the application.

5. Match funding

SB 88 distinguishes between State funds and monies from all other non-State sources. It also directs ARB to maximize the amount of match funds used to supplement Program funds. The match required to cover the difference between the Program funding cap and the total project cost can come from the private sector, local agencies, other State monies, or the federal government. Private match funding can be provided by the equipment owner, an industry sponsored program, or other sources.

See Chapter IV.A.6 for information on match funding.

~~a) — Carl Moyer program (moved to Chapter IV.A.6.a)~~

6. Competitive ranking of local or State agency projects

ARB staff shall use a quantitative approach to develop a prioritized list of eligible local and State agency projects. This process will be applied to competing local agency projects within each trade corridor and funding category. ARB staff shall publish the list of competitively ranked local agency projects on the ARB's Program website, as well as the list of eligible State agency projects for truck loans.

The competitive ranking shall be quantitative based on multiple factors – emission reductions and a measure of cost-effectiveness that considers match funding. The calculation of emission reductions uses the Carl Moyer Program protocol of weighting combustion PM emissions (essentially diesel PM) by a factor of 20 relative to other pollutants to account for the greater health impacts of PM per ton of emissions. This protocol helps target Program funding to the local agency projects that will achieve the greatest reduction in health risk.

a) *Emission reductions score*

~~For each equipment project option that a local agency proposes to implement within a source category, ARB staff shall review the local agency's estimate of~~ For each source category, ARB staff shall provide a tool to calculate the total pollutant-weighted emission reductions in California, over the average project life, ~~based on the Project Benefits Calculator for that source category.~~

Weighted emission reductions = Reduction in NOx + (combustion PM x 20)
emissions in California over the average project life in pounds-tons

~~If a local agency proposal combines multiple equipment project options within a source category, ARB staff shall confirm that the calculation repeats this process for each option, and adds the reductions together for the source category.~~

ARB staff shall list local agency projects in descending order of emission reductions, with the greatest emission reductions on top and the lowest emission reductions on the bottom. ARB staff shall number or score each project starting at the bottom with a score of 1 and continuing consecutively to the top project. For example, if there are 8 project proposals, the one with the greatest emission reductions would receive a score of 8. See Figure 1 for an example.

Emission Reductions Score = number from above evaluation

b) Cost-effectiveness and match score

~~For each proposed equipment project option in a funding source category, ARB staff shall review the local agency's estimate of the total pollutant-weighted emission reductions (as determined above and converted from tons to pounds), divided by the total State funding proposed for the project, based on the Project Benefits Calculator for that source category. Total State funding includes requested Program funds (project and administration funds), plus any other applicable State dollars – see discussion under Chapter IV.A.6.H.D.5, Match funding. on treatment of the \$2 vehicle registration fee surcharge under AB 923 as State dollars.~~

Cost-effectiveness = weighted emission reductions (lbs)/total applicable State \$

~~If the proposal includes multiple equipment project options, ARB staff shall confirm that the calculation repeats this process for each option, and adds the costs together and the benefits together to determine the average cost-effectiveness and match number for the source category.~~

ARB staff shall list local agency projects in descending order of emission reductions per State dollar, with the highest number on top and the lowest number on the bottom. ARB staff shall number or score each project starting at the bottom with a score of 1 and continuing consecutively to the top project. For example, with 8 project proposals, the one with the greatest emission reductions per State dollar would receive a score of 8. See Figure 1 for an example.

Figure 1. Local agencies A,B,C submit competing truck projects (hypothetical)

Results from Project Benefits Calculator:

Agency/ Project	Reductions over 8-Year Project Life		Weighted Emission Reductions (tons)	State Dollars
	NOx tons	PM tons		
A/ Replace 1,000 trucks	3,170	220	7,570	\$50M at \$50k/truck
B/ Replace 800 trucks	2,536	176	6,056	\$24M at \$30k/truck
C/ Replace 700 trucks	2,219	154	5,299	\$28M at \$40k/truck

Emission
Reduction Score

A-7,570 tons Score: 3
 B-6,056 tons Score: 2
 C-5,299 tons Score: 1

Cost-Effectiveness
Score

B-0.5 lbs/\$ Score: 3
 C-0.4 lbs/\$ Score: 2
 A-0.3 lbs/\$ Score: 1

Competitive Ranking	
Project B: 2+3	5 points
Project A: 3+1	4 points
Project C: 1+2	3 points

Cost-Effectiveness and Match Score = number from above evaluation

This calculation of cost-effectiveness indirectly accounts for the level of match funding. A project will always have a combination of Program funding and match funding (from State or non-State sources) to cover the total cost of the project. The cost-effectiveness equation uses the full weighted emission reductions achieved by the total project funding, not just a subset of the reductions in proportion to the State funding component. By counting the total weighted emission reductions, the Program recognizes the benefits of non-State match funds and offers a competitive advantage to local agency projects with greater match.

For example, assume the Program offers funding for up to 50 percent of the cost of new equipment, with the other 50 percent covered by non-State match funds (resulting in a

1:1 match). Most project proponents seek the maximum Program funds, but proponent X only requests Program funding for 25 percent of the total cost, with the other 75 percent covered by non-State match funds (effectively providing a 3:1 match). The emission reductions for all the projects would likely be similar, but the total reductions per State dollar are much greater for proponent X because this project relies on less State funds and more match funds.

c) *Competitive ranking*

ARB staff shall add the Emission Reductions Score to the Cost-Effectiveness ~~and Match Score~~ to determine the final points for each local agency project. ARB staff shall rank local agency projects within each trade corridor and funding category from highest points to lowest points. See Figure 1 for an example.

~~Note: Projects to repower or replace switcher locomotives shall be considered a higher priority than other types of locomotive equipment project options, consistent with the statutory direction to give funding priority to switchers.~~

ARB staff shall assess the costs and benefits of any State agency proposals for truck loan projects, and rank those projects against each other, if appropriate.

7. Public workshops on eligible local and State agency projects

ARB staff shall hold no less than three public workshops statewide to discuss the competitively ranked list of eligible local and State agency projects and any preliminary ARB staff recommendations for funding ~~local agency~~ projects. At least one workshop each will be held in northern California, the Central Valley, and southern California. At ARB staff discretion; these workshops may be conducted between release of the competitive ranking and development of funding recommendations or after development of ARB staff funding recommendations. For FY2007-08 funds, these workshops were not required by statute. H&S §39626(c)(2).

8. Recommendations for funding local agency and State projects

Based on the competitively ranked list of eligible local agency projects and public input, ARB staff shall use a qualitative approach to develop recommendations on the level of funding for the top project(s) in each trade corridor and funding category. This approach shall consider the availability of Program funds, the trade corridor and source category funding targets, and priorities established by the Board for each funding cycle. ARB staff shall also consider project proposals from any State agency for truck loan or loan guarantee programs.

ARB staff shall make these funding recommendations for local and State agency projects available to the public via ARB's ~~the~~ Program website (~~<http://www.arb.ca.gov/gmbond>~~) prior to the public hearing conducted by the Board.

Within each trade corridor and funding category, ARB staff shall follow this process:

a) *Consideration of available funds and funding priorities*

Starting with the project with the highest competitive ranking above, ARB staff shall compare the requested Program dollars with the available funds, the Program funding targets for the trade corridor and funding category, and any priorities identified by the Board for those funds that year.

b) *Funding level for ~~local agency~~ project proposals*

ARB staff shall recommend whether the most competitive local agency project in each trade corridor and funding category should be funded in whole, in part, or not at all in that funding cycle. ARB staff may recommend pro-rating the requested Program funding and the estimated performance measures (pieces of equipment, emission reductions, etc.) based on the available dollars and funding priorities.

~~Board priorities may result in preferential funding for one of the equipment project options proposed in the local agency application for a source category (i.e., if the Board makes funding for PM filter retrofits a priority for FY2007-08 funds, ARB could provide more funding for that equipment project option relative to the other options within the source category). If Board priorities do not favor a specific equipment project option within a source category, ARB staff will assume that any pro-rated funding will be applied proportionally to all of the equipment project options the local agency proposes to implement.~~

Once the recommended funding is determined for the top project, ARB staff shall evaluate the project with the second highest competitive ranking in consideration of available funds and funding priorities. ARB staff shall continue until the appropriate level of funding for that trade corridor and category – in that funding cycle – is reached.

Based on the process described above for evaluating and ranking eligible local agency projects, as well as assessing the funding level, ARB staff shall issue its written recommendations to the Board for local agency project funding with the available grant funds, as well as any funding to State agencies for truck loan and loan guarantee programs.

9. Public hearing and Board action

The Board will hold a noticed public hearing to consider public testimony, written comments, and ARB staff recommendations for funding local agency projects and loan and loan guarantee programs with the available Program monies. At that hearing, the Board may adopt a resolution approving a final list of primary local agency projects, loan projects, and corresponding funding amounts for each project. This project list may identify ARB as an administering State agency for a loan project and the funds allocated for that purpose. This Board resolution initially obligates the funds, and provides ARB

staff with the authority to enter into grant agreements or interagency agreements with the selected local agencies, when bond funds are available. H&S §39626(c)(3). The ARB Executive Officer may delegate in writing the ability to sign these local agency ~~project grant~~ agreements to another individual or individuals on ARB's executive management team.

The project list approved by the Board may also identify "backup" proposals (additional local or State agency projects or increases in funding levels for the approved projects). These backup proposals may be awarded funding if ~~local agency project grant~~ agreements cannot be executed for one or more of the primary projects within the timeframe specified by the Board in the resolution, a local or State agency is unable to expend all of the Program funds or fulfill its obligations, or a local or State agency requests to terminate or transfer its grant.

10. Local agency ~~project grant~~ agreement

The Board's funding decisions shall become legally enforceable through executed grant agreements between ARB staff and the selected local agencies. Each local agency project requires a separate local agency ~~project grant~~ agreement.

ARB staff shall prepare and submit for review and signature two ~~signed~~ copies of the local agency grant agreement to each local agency approved for bond funding. The copies may be signed by ARB and then sent to the local agency for signature by After an authorized representative from the local agency ~~signs both copies of the grant agreement, the local agency shall~~ who will retain one fully executed copy for its files, and return one fully executed copy to ARB staff. Or ARB may send two copies to the local agency for signature by an authorized representative and return both copies to ARB. ARB staff shall sign and return to the local agency one fully executed copy of the grant agreement for its files.

Each grant agreement with a local agency shall include, but is not limited to, the following elements.

a) *Standard grant agreement provisions*

- Grant agreement number—unique tracking number provided by ARB.
- Effective date.
- Term of grant agreement.
- Local agency contact information.
- Indemnification—local agency agrees to indemnify and hold harmless the State for any liability arising out of the performance by the local agency.
- Severability—remaining provisions of an agreement continue in effect even if a court holds a specific provision invalid.
- Force majeure—ARB and local agency are not liable for any delay or failure in performance resulting from war, natural disasters, and other acts beyond their control.

- Grant agreement amendments—amendments shall only occur by mutual agreement in writing and signed by all parties.
- Environmental justice—local agency agrees to conduct its programs in a manner that ensures the fair treatment of all people in the State.
- ARB's obligations to pay any funds are contingent upon the availability of funds. In the event funds are not available, the State shall have no liability to pay any funds to the local agency or to furnish any other considerations.

b) General Program provisions

- Application—incorporate by reference the original local agency application and board/commission resolution.
- Guidelines—local agency agrees to implement project in conformance with all applicable requirements of these Guidelines.
- Reporting requirements—local agency is responsible for submitting to ARB quarterly data-updates, semi-annual reports, and local agency project completion reports, when requested by ARB staff.
- Ongoing evaluations and audits—local agency agrees to allow ongoing evaluations and audits by ARB, other State agencies, or their designated representative(s).
- Records access requirements—local agency agrees to allow ARB or its designated representative(s) access to evaluate or audit Program records.
- Recordkeeping requirements—local agency agrees to retain Program records, i.e., invoices, contracts, and correspondence, for ~~at least two years after the project ends or three years after final payment, whichever is later.~~ 35 years after the bond issuance date providing the funds for the grant or to send all records to ARB by the end date of the grant agreement in an electronic format to be determined by ARB.
- Enforcement—provisions authorizing ARB or its designee to inspect equipment projects.
- Non-performance includes, but is not limited to:
 - Failure to comply with these Guidelines or statutes.
 - Failure to obligate or expend Program funds within established timelines, or to show timely interim progress to meet these timelines.
 - Insufficient performance or widespread deficiencies with Program oversight, enforcement, record keeping, contracting provisions, inspections, audit procedures or any other Program element as determined by ARB.
 - Misuse of Program funds.
 - Funding of ineligible equipment projects or other items.
 - Exceeding administrative fund allotment.
 - Insufficient, incomplete, or faulty project documentation.
 - Failure to provide required documentation or reports requested from ARB, DOF, or other agencies in a timely manner.
 - Poor performance as determined by an audit conducted by ARB, DOF, or other designee.

- Remedies for non-performance include:
 - Probation.
 - Recovery of funds.
 - Constraints on opportunity to compete for future Program funds.
- Direct payments to vendor—requirement allowance for local agency to offer payments directly to vehicle or equipment dealers or manufacturers if requested by equipment owner.
- Tax implications—local agency agrees to notify equipment owners of possible tax implications from receipt of Program funds and encourage participants to consult a tax professional.
- Program acknowledgment—local agency agrees to acknowledge the Program as a funding source in any related media events or other publicity material.
- Earned interest—local agency agrees to maintain records and report on interest earned on Program funds in local agency accounts, and to expend earned interest according to the provisions in these Guidelines.
- Recapture—ability of ARB to recapture Program funds.

c) *Source category-specific elements*

- Local agency project description (~~including each equipment project option within the source category~~).
- Estimated total cost for project ~~and subtotals for each equipment project option~~.
- ~~Project cost breakdown (including technology/equipment purchase, labor for retrofit/installation, etc.) and subtotals for each equipment project option.~~
- Eligible costs—costs directly tied to the purchase and installation of upgraded equipment or other eligible equipment project costs ~~expenses~~ as defined in the Guidelines or accompanying Staff Report. ~~equipment project specifications.~~
- Ineligible costs—any cost specifically identified as ineligible in the Guidelines or accompanying Staff Report cannot be paid for or reimbursed with Program funds.
- Funding caps for each equipment project.
- Total grant amount ~~and subtotals for each equipment project option~~.
- Total amount of non-State match funds and source of funds.
- Project performance benchmarks—expected number of vehicles, pieces of equipment, berths, etc. to be upgraded and expected emission reductions.
- Project schedule—timeframe for completing the local agency project including major milestones and any milestones specific to each equipment project option.
- Expenditure schedule—estimated schedule for ARB to expend funds to the local agency.
- Request for payment—steps for a local agency to request expenditure of Program funds.
- Equipment project inspections—local agency agrees to complete equipment project pre-inspections prior to execution of an equipment project contract (or following contract execution but prior to placement of purchase order at the local agency's option) and post-inspections prior to reimbursement (except in the case of direct payment to vendor).

- Equipment project contracts—local agency agrees to include all equipment project requirements and conditions (i.e., restrictions on operating location, provisions for electronic monitoring devices, etc.) in contracts with equipment owners.
- Proper disposal of old equipment—local agency agrees to establish agreements with qualified salvage yards and verify scrappage/disposal of old vehicle, vessel, equipment, or engine, and to comply with any ARB direction to make trucks available for reuse.
- Small businesses—outreach to small businesses for infrastructure construction.

~~11. \$25 million in early grants for FY2007-08 funds~~

~~SB 88, as set forth in H&S §39626.5(c), makes available up to \$25 million in FY2007-08 funds for the purpose of executing grant agreements directly with ports, railroads, or local air districts for eligible projects to achieve the earliest possible health risk reduction. SB 88 requires that ARB allocate funds under this “early grant” provision consistent with these Guidelines, and that ARB provide sufficient opportunity for the public to review and comment on any projects proposed for funding. Appendix H outlines the process and applicable requirements of the Guidelines for the early grants.~~

~~The public review process started with release of the Staff Report on January 3, 2008. This Report lists the \$177 million in early grant proposals from air districts and staff’s recommendations for funding early grant projects totaling \$25 million. Staff is soliciting public input on these recommendations via workshops, meetings, written comments, and testimony at the Board hearing.~~

11. State agency loan and loan guarantee program interagency agreement

The Board’s funding decisions shall become legally enforceable through executed interagency agreements between ARB staff and the selected State agencies, unless ARB is the selected State agency. Each State agency project requires a separate interagency agreement.

ARB, if required, will enter into an interagency agreement with a State agency to implement a loan or loan guarantee program (loan project). ARB staff shall obtain all authorized State signatures and return to the other State agency one fully executed copy of the interagency agreement for its files. An interagency agreement is not required if ARB is the applicant and recipient of the Program funds.

The interagency agreement includes, but is not limited to, the following elements:

a) Standard interagency agreement provisions

- Interagency agreement number—unique tracking number provided by ARB.
- Effective date.
- Term of agreement.

- State agency contact information.
- Agreement amendments—amendments shall only occur by mutual agreement in writing and signed by all parties.
- Enforcement—provisions authorizing ARB or its designee to inspect equipment projects.
- Program acknowledgment—State agency agrees to acknowledge the Program as a funding source in any related media events or other publicity material.
- Non-performance includes, but is not limited to:
 - Failure to comply with these Guidelines or statutes.
 - Failure to obligate or expend Program funds within established timelines, or to show timely interim progress to meet these timelines.
 - Insufficient performance or widespread deficiencies with Program oversight, enforcement, record keeping, contracting provisions, inspections, audit procedures or any other Program element as determined by ARB.
 - Misuse of Program funds.
 - Funding of ineligible projects or other items.
 - Exceeding administrative fund allotment.
 - Insufficient, incomplete, or faulty project documentation.
 - Failure to provide required documentation or reports requested from ARB, DOF, or other agencies in a timely manner.
 - Poor performance as determined by an audit conducted by ARB, DOF, or other designee.
- Remedies for non-performance include:
 - Recovery of funds.
 - Constraints on opportunity to compete for future Program funds.
- State agency project description.
- Project performance benchmarks—expected number of vehicles to be upgraded and expected emission reductions.
- Project schedule—timeframe for completing the State agency project including major milestones.
- Request for payment—steps for a State agency to request expenditure of Program funds.
- ARB’s obligations to pay any funds are contingent upon the availability of funds. In the event funds are not available, the State shall have no liability to pay any funds to the State agency or to furnish any other considerations.

b) Scope of work provisions

- The amount of Program funds awarded to the loan project.
- Requirements for transferring funds between ARB and another State agency.
- Earned Interest—State agency agrees to maintain records and report on interest earned on Program funds and to expend earned interest according to the provisions in these Guidelines.
- Reporting requirements—State agency is responsible for submitting semi-annual reports and project completion reports.

- Ongoing evaluations and audits—State agency agrees to allow ongoing evaluations and audits by ARB, other State agencies, or their designated representative(s).
- Records access requirements—State agency agrees to allow ARB or its designated representative(s) access to evaluate or audit records.
- Recordkeeping requirements—State agency agrees to retain Program records for 35 years after the bond issuance date for funds provided for the loan or loan guarantee program(s) or send all records to ARB within two years of the last loan being paid off in an electronic format to be determined by ARB.

If ARB is the administering agency for a loan project and ARB contracts with either another State agency or other entity, ARB will require an interagency agreement or contract that includes the above provisions.

F. ~~E.~~ ARB Program Oversight

ARB is the administering agency for this Program, and is responsible for ensuring that Program funds are spent on equipment projects that meet the provisions of ~~statute (SB 88 and AB 201)~~ State Law and these Guidelines.

~~Through the budget bills for upcoming FY2008-09 (SB 1067 and AB 1770), the Administration proposes a technical modification to align the standard timeframes for ARB to obligate and liquidate Program funds with the extended timeframes provided for local agencies under SB 88. Under the current requirements applicable to ARB and other State agencies, ARB must liquidate funds (i.e., make final payment to local agencies) up to four years before those local agencies would be required to liquidate the funds for completed projects. The budget bill will align the timelines so that the State retains control of Program funds until they are necessary to complete an equipment project, consistent with sound fiscal and accountability practices. These Guidelines are structured to rely on the alignment, but also include references to the existing law to allow Board adoption of the Guidelines and execution of local agency project grant agreements prior to passage of the FY2008-09 State budget.~~

To maintain sound fiscal practices and ensure that projects can reach completion once begun, ARB staff shall provide a Start Letter (or multiple letters) for each grant. The Start Letter shall authorize the local agency (or State agency for loan projects) to proceed with project implementation based on a specified level of available funds. For a high dollar value grant, ARB staff may identify partial funding that conforms to the bond cash on deposit. The Start Letter shall itemize both the level of project funds and administration funds that are available at the request of the local agency, consistent with the performance benchmarks in the Guidelines and grant agreement. ARB may issue multiple Start Letters that authorize the local agency (or State agency for loan projects) to request additional funds, consistent with the grant or interagency agreement.

1. ARB obligations to local or State agencies

ARB shall obligate Program funds for each fiscal year's appropriation according to the obligation deadlines set forth in State law, but consistent with the State's fiscal policies

for bond-funded programs. This is a two-step process, beginning with the Board's allocation of funds via resolution to specific local or State agency projects and ending with fully executed ~~local agency project grant agreements~~ or interagency agreements.

If needed, ARB staff may propose updates to the Guidelines for Board consideration prior to obligating funds from new appropriations.

2. ARB expenditures

ARB shall liquidate Program funds for each fiscal year's appropriation according to the liquidation deadlines set forth in State law but consistent with the State's fiscal policies for bond-funded programs.

- Once Program funds are obligated, with the exception of ~~earned interest-recaptured funds~~, any funds ~~returned or unspent~~ by a local or State agency within the statutory timeframes revert back to the California Ports Infrastructure, Security, and Air Quality Improvement Account, and must be re-appropriated by the Legislature. It is therefore the policy of ARB to retain grant funds until necessary for the purchase of equipment, for the purpose of advancing the completion of an equipment project, for the purpose of funding a truck loan or loan guarantee program, or for the purpose of meeting liquidation deadlines set forth in State law.
- ARB shall only expend Program funds upon receipt of a valid Grant Expenditure Request submitted to ARB by an authorized local or State agency representative acting under a fully executed ~~Local Agency Project grant~~ agreement.

a) Administration funds

Administration funds expended by ARB for this Program may be used by a local agency for the administration of ~~any a~~ local agency project covered by a fully executed grant agreement. If a local agency has more than one fully executed ~~local agency grant~~ agreement with ARB, administration funds identified under one ~~local agency grant~~ agreement may be used to assist in the implementation of another grant agreement. The local agency shall not use administration funds in excess of the total administration funds allowed under all grant agreements (i.e., the sum of all administration funds for one local agency shall not exceed 5 percent of the total ~~grant project funds~~ awarded to that local agency).

Local agency requests for administration funds are subject to the following restrictions:
(The section below was moved from Chapter III.B.3.e.)

~~Administrative funds.~~

- Local agencies with the ability to generate new funding from goods movement sources to cover administration funds (e.g., seaports) shall be prohibited from requesting administrative Program funds.

- In all other cases, requests for administration funds are capped as follows:
 - ~~2% of the grant amount for grid-based shore power.~~
 - 3% of the grant amount for locomotives, cargo cranes equipment and ships at berth, ~~truck stop/distribution center electrification, and non-grid shore power.~~
 - 4% of the grant amount for harbor craft.
 - 5% of the grant amount for trucks and truck stop/distribution center electrification.

Administration funds expended by ARB for this Program may be used by a State agency for the administration of a State agency truck loan project covered by a fully executed interagency agreement, if applicable. State agency requests for administration funds are capped at 5 percent of the project funding awarded to the State agency for truck loans and loan guarantees.

Administration funds shall be used for tasks associated with Program outreach/marketing, implementation, and audit and oversight, including: staff time; consultant fees; printing, mailing, and travel costs; project monitoring and compliance expenses; and indirect Program costs, such as general administrative services, office space, and telephone services.

(1) Initial expenditure

~~Of the maximum grant award allowed for administration funds, ARB may initially expend up to 50 percent of a local agency's administration funds for all source categories except shore power.~~

~~For the shore power source category, ARB may initially expend up to 25 percent of the local agency's administration funds.~~

Consistent with the Start Letter, the local agency may request and ARB may initially expend administration funds for local agencies, according to the provisions for each source category listed in Table II.3 below, except for loan projects administered by a State agency. A State agency may request and ARB may approve administration funds up to 100 percent, consistent with the terms of the executed interagency agreement. The interagency agreement will include specific terms and conditions that the State agency must meet to request funds.

Table II.3 Initial Expenditures for Local Agency Administration Funds

<u>Source Category</u>	<u>% of Funds</u>	<u>Requirements</u>
<u>Heavy duty diesel trucks</u>	<u>up to 75%</u>	1. <u>ARB and local agency have fully executed the grant agreement.</u> 2. <u>A Start Letter authorizes the expenditure based on available bond cash.</u>
<u>Locomotives and rail yards</u>	<u>up to 50%</u>	
<u>Ships at berth</u>	<u>up to 25%</u>	
<u>Cargo handling equipment</u>	<u>up to 50%</u>	
<u>Harbor craft</u>	<u>up to 50%</u>	

(2) Additional expenditures

For truck and commercial harbor craft source categories, ARB shall expend the remaining Program funds for administration only after 50 percent of the Program funds for equipment projects are expended by the local agency or ARB comes within six months of a liquidation deadline, whichever is sooner. ARB staff shall verify the local agency's documentation that 50 percent of the equipment project funds were expended prior to the additional expenditure.

For the remaining source categories (locomotives, shore power, truck stop/distribution center electrification, and cargo handling equipment), ARB shall expend the remaining Program funds for administration only after 100 percent of the Program funds for equipment projects are liquidated by the local agency or ARB comes within six months of ARB's liquidation deadline, whichever is sooner. ARB staff shall verify the local agency's documentation that the equipment project funds were liquidated prior to expenditure.

Consistent with the initial Start Letter or a subsequent Start Letter, the local agency may request and ARB may expend the remaining administrative funds according to the provisions for each source category listed in Table II.4 below.

Table II.4 Additional Expenditures for Local Agency Administration Funds

<u>Source Category</u>	<u>% of Funds</u>	<u>Requirements</u>
<u>Heavy duty diesel trucks</u>	<u>remaining</u>	<ol style="list-style-type: none"> 1. <u>A Start Letter authorizes the expenditure based on available bond cash.</u> 2. <u>The local agency liquidates at least 50% of the total project funds and ARB staff verifies that this condition has been satisfied.</u>
<u>Locomotives</u>	<u>remaining</u>	<ol style="list-style-type: none"> 1. <u>A Start Letter authorizes the expenditure based on available bond cash.</u> 2. <u>The local agency liquidates at least 100% of the total project funds and ARB staff verifies that this condition has been satisfied.</u>
<u>Ships at berth</u>	<u>remaining</u>	
<u>Cargo handling equipment</u>	<u>remaining</u>	
<u>Harbor craft</u>	<u>remaining</u>	<ol style="list-style-type: none"> 1. <u>A Start Letter authorizes the expenditure based on available bond cash.</u> 2. <u>The local agency liquidates at least 50% of the total project funds and ARB staff verifies that this condition has been satisfied.</u>

b) *Equipment project costs*

(1) Initial expenditure

Consistent with the Start Letter, the local agency may request and ARB may initially expend Program funds for equipment projects according to the provisions for each source category listed in Table 2II.5-4 below, except for loan projects administered by a State agency. Consistent with the Start Letter, a State agency may request and ARB may expend Program funds for loan projects up to 100 percent once the interagency agreement has been executed, if applicable.

Table 4II.5—Initial Expenditures for Local Agency Equipment Project Funding

Source Category	% of Funds	Requirements
Trucks serving ports and intermodal rail yards	up to 100%	<ol style="list-style-type: none"> 1. <u>A Start Letter authorizes the expenditure based on available bond cash.</u> 2. <u>The local agency has provided data on eligible equipment projects to ARB. ARB staff has approved the competitively ranked list of projects. The local agency has posted the approved list on its public website.</u> 3. <u>The approved list demonstrates a demand for the requested project funding.</u> 4. <u>ARB staff has determined that the local agency's equipment project contract template, and any lease-to-own programs for trucks, meet the requirements of the Guidelines.</u> <p>Initial expenditure may be requested once the competitively ranked equipment project list is posted on the local agency website as a demonstration of the local agency's readiness to execute equipment project contracts; or within six months of ARB's liquidation deadline as specified in State law, whichever comes first.</p>
Other heavy duty diesel trucks	up to 100%	
Locomotives	up to 10%	
Ships at berth	up to 10%	
Cargo handling equipment	up to 100%	
Harbor craft	up to 10%	
Truck stop/distribution center electrification	up to 10%	

(2) Additional expenditures

Consistent with the initial Start Letter or a subsequent Start Letter, the local agency may request and ARB may expend the remaining Program funds for equipment projects according to the provisions for each source category listed Table in 2II.6-2 below.

Table 2II.6 Additional Expenditures for Local Agency Equipment Project Funding

Source Category	% of Funds	Requirements
Trucks serving ports and intermodal rail yards	remaining	1. <u>A Start Letter authorizes the expenditure based on available bond cash.</u> 2. <u>The approved ranked list demonstrates a demand for the requested project funding.</u>
Other heavy duty diesel trucks	remaining	Additional expenditures may be requested at any time after the initial expenditure from ARB, but shall be requested no later than six months before ARB's liquidation deadline under State law.
Cargo handling equipment	remaining	
Shore power Ships at berth	remaining	1. <u>A Start Letter authorizes the expenditure based on available bond cash.</u> 2. <u>The local agency has a fully executed contract for the equipment projects.</u> 3. <u>The equipment projects are within 6 months of the anticipated post-inspection date.</u>
Locomotives	remaining	Additional expenditures may be requested no sooner than six months prior to the anticipated post-inspection date, but shall be requested no later than six months before ARB's liquidation deadline under State law.
Harbor craft	remaining	
Truck stop/distribution center electrification projects	remaining	Additional expenditures may be requested no sooner than six months <u>after</u> the post-inspection date, but shall be requested no later than six months before ARB's liquidation deadline under State law.

- 3. ~~_____~~ **Earned interest**
- 3. **Funding recapture - ARB**

ARB shall receive local agency reports on the interest earned and expended from Program funds held in local agency accounts. Earned interest provisions for local agencies are detailed in Chapter III.E.3.

If a local agency is unable to expend earned interest according to the provisions of these Guidelines, ARB shall reallocate the interest payments collected from these local agencies in the manner specified in these Guidelines.

It is ARB's policy that Program funds be obligated and expended in a timely manner. The ARB Executive Officer or his or her designee has the authority to recapture funds for reallocation and expenditure prior to reversion deadlines, and may amend or modify an executed grant or interagency agreement, or establish a new grant or interagency agreement, to implement this policy.

ARB may recapture and reallocate funds including, but not limited to, the following:

- Funds allocated or paid to a local agency (or State agency administering a loan project) that the local (or State) agency notifies ARB are unlikely to be spent within the Program or statutory deadlines.
- Funds allocated or paid to a local agency (or State agency administering a loan project) that ARB staff determines are unlikely to be spent within the Program or statutory deadlines, based on the local (or State) agency's progress in implementing the grant agreement. The ARB Executive Officer shall notify the local (or State) agency in writing of any such determination before taking action to recapture and reallocate the funds. This action may include termination of a grant or interagency agreement, or notification that the local or State agency must return unexpended funds to ARB.
- Funds returned to ARB by a local agency (or State agency administering a loan project).
- Earned interest held by ARB or a local (or State) agency, as permitted by State law and fiscal policies.
- Funds paid to an equipment owner but returned to the local (or State) agency after the funds have been liquidated.
- Other funds that may come into the Program from other sources in the future.

ARB staff will follow the hierarchy below for allocating recaptured funds to Board-approved primary or backup projects:

- Within the same funding category and trade corridor.
- Within the same trade corridor.
- To another trade corridor (with Board approval).

4. Ongoing evaluations

ARB staff shall evaluate local agency and equipment projects on an ongoing basis. Evaluations are designed to meet the accountability requirements of ~~SB 88~~ State law and the Executive Order S-02-07. Any Program funds expended on equipment projects that ARB finds are not eligible for funding shall be documented as an adverse finding in the local agency's audit. The ARB Executive Officer may require that the local agency reimburse ARB the Program funds identified in an adverse finding, or may seek other remedies from the local agency as the Executive Officer deems appropriate.

a) Ongoing evaluations of local agency projects

Ongoing evaluation of local agency projects includes reviewing local agency project records to ensure consistency with ~~Program~~ Guidelines and emission reduction goals. Evaluations may occur as ARB staff deems necessary and feasible with available resources.

Local agencies shall permit ARB, the ~~Department of Finance (DOF)~~, the Bureau of State Audits (BSA), or any authorized designee, access, during normal business hours, to conduct Program and fiscal audits.

b) Ongoing evaluations of equipment projects

Ongoing evaluation of equipment projects includes reviewing equipment project records to ensure consistency with ~~Program~~ Guidelines and emission reduction goals, and site visits to inspect engines, vehicles, or other equipment funded under the Program. Evaluations of equipment projects may occur unannounced as ARB staff deems necessary and feasible with available resources.

Equipment owners shall permit the local agency, ARB, ~~Department of Finance~~ DOF, ~~Bureau of State Audits~~ BSA, or any authorized designee, access, during normal business hours, to conduct ongoing evaluations for the purpose of monitoring the Program.

In addition to local agency review to ensure the appropriate registration and operation of bond funded equipment, ARB may periodically monitor, through federal, State, and local equipment registration databases, as applicable, ongoing equipment project compliance with California registration and operational requirements. Equipment registration databases may include, but are not limited to:

- California Air Resources Board databases.
- California Department of Motor Vehicle databases.
 - California International Registration Plan (CA IRP).
- California Department of Fish and Wildlife databases.
- California Department of Transportation databases.
- Local agency databases, as available, such as air district permit records or port access databases.

When ARB field inspectors check trucks, locomotives, rail yards, harbor craft, cargo handling equipment, and ship berths for compliance with ARB regulations or enforceable agreements, they shall also assess compliance with Program requirements for any bond-funded equipment. The inspectors, via an equipment database, shall determine if the equipment received bond funding ~~via an equipment database~~ and evaluate bond-funded equipment to ensure that all pollution controls are functioning and the equipment is meeting the Program operating conditions.

Nothing in these Guidelines is to be construed as limiting or otherwise affecting in any way ARB's enforcement authority for ensuring that equipment subject to the Program complies with all Program requirements, as well as all applicable regulations or enforceable agreements.

(1) Electronic monitoring devices

With the exception of contracts for locomotive projects and grid-based shore power projects, all equipment project contracts shall require that the equipment owner agree to the installation and use of an electronic monitoring device at any time during the equipment project contract term. Equipment project contracts for locomotives shall require equipment owners to install and use global positioning systems (GPS), and report data.

ARB staff is considering requiring the ~~widespread-use~~ of electronic monitoring devices on bond-funded equipment for the replacement truck projects that allow for primary purpose of tracking equipment operational requirements (100 90 percent California operation) and equipment activity within the four trade corridors. In a subset of equipment projects, ARB is ~~considering more sophisticated devices to collect additional activity or engine operational data for ARB inventory needs.~~

ARB sStaff recognizes the privacy concerns that equipment owners may have about any type of electronic monitoring device. ARB sStaff intends to will work with the local agencies to develop specifications for the minimum information needed to verify the 90 percent California operation. This information will be posted on ARB's website. ~~a proposal for public review and seek comment prior to including requirements for specific electronic monitoring devices and data reporting protocols in future updates to these Guidelines.~~

~~In developing the electronic tracking component of this Program, ARB staff recognizes the detailed reporting and database requirements associated with other ARB truck programs as well as the recently adopted truck replacement plans at the Ports of Los Angeles and Long Beach. ARB staff is working to coordinate the Program requirements and specifications with these other efforts, where possible.~~

~~Examples of electronic monitoring devices include, but are not limited to, the following:~~

- ~~● Passive GPS (Global Positioning System) tracking devices
 - ~~— Passive GPS systems are less expensive (potentially lower than \$300/unit) than real-time GPS systems, and do not have associated subscription costs. The trade-off, however, is that each unit would require local agency or ARB inspectors to physically download data from each unit.~~~~
- ~~● Real-time GPS tracking devices
 - ~~— Real-time GPS systems are more expensive (upward of \$5,000/unit for the equipment and 5 years of monitoring), but have the capability of capturing real-time location information and remotely downloadable data.~~~~
- ~~● RFID (Radio-Frequency Identification)
 - ~~— RFID systems are best used in a controlled gate environment to identify equipment entering or exiting a facility (like a port or rail yard). These systems may be used to track the number of visits to a port, but cannot be used to verify California operation.~~~~

For each equipment project, all data collected from any electronic monitoring device required under this Program shall be provided to the local agency administering that equipment project and to ARB staff or its contractors for their use and analyses. Such data may include, but not be limited to, vehicle identification number (VIN); date, time, and distance traveled for each trip; GPS locational information; emissions or fuel usage rates; and other information collected from gauges, sensors, and other sources. Further, notwithstanding the nature of data collected, each equipment project contract shall expressly specify that no data collected from these monitoring devices shall be construed in any way as constituting non-disclosable personal or locational identifiers.

Data collected from these monitoring devices shall be disclosed only to the local agency and ARB staff or its contractors, except as otherwise provided by law. Such data shall be provided upon request in the form and format agreed to by the parties or as otherwise specified in these Guidelines. Each equipment project contract shall require all signatories to acknowledge their understanding and agreement to allowing the local agency and ARB staff and its contractors such access to the collected data. Nothing in this provision or these Guidelines shall be construed in any way as limiting ARB's ability to publish or release the collected data or the results of analyses using these collected data in summary form without individual personal identifiers; for purposes of this Program, "personal identifiers" include only the name of the vehicle driver or equipment operator and the driver's or operator's home address in alpha-numeric format (e.g., 1000 Apple Way), if collected.

5. Auditing

Audits are designed to ensure that all local agency and equipment projects funded under the Program meet the requirements of these Guidelines. ARB or its designees shall audit a sufficient number of local agency projects and equipment projects each year to ensure effective Program implementation and accountability, subject to available resources.

a) ARB audits of local agency projects

Pursuant to H&S §39625.02(e)(1), ARB staff or its designees shall conduct Program and fiscal audits of the local agencies.

To ensure objectivity and the efficient use of resources, ARB shall use a risk-based approach to select specific local agency projects for audit during a given year. Consistent with this approach, local agencies demonstrating good performance when audited will likely be audited less frequently in the future than similarly-funded local agencies with poorer audit results.

Any Program funds that local agencies expend on projects not eligible for Program funds shall be documented as an adverse finding in the local agency's audit. The ARB Executive Officer may require that the local agency reimburse ARB the Program funds

identified in an adverse finding, or may seek other remedies from the local agency as the Executive Officer deems appropriate.

The responsibilities of ARB or its designees during an audit include, but are not limited to, the following:

- Audits shall be conducted in a manner that reflects the public responsibility and accountability entrusted to ARB.
- ARB shall maintain open channels of communication with the local agency under audit, for example, fully explaining the audit's scope and procedure at the beginning of the process, informing the affected parties of potential issues as they unfold, affording numerous opportunities for input throughout the audit, thoroughly discussing any findings and recommendations during the exit interview, and allowing the local agency an opportunity to formally respond to the audit report.
- To ensure objectivity and predictability, ARB shall base its findings and recommendations on materials such as State law, these ~~Goods Movement Emission Reduction Program Guidelines for Implementation~~, Guidelines, Generally Accepted Accounting Principles (GAAP), e-mail communications between ARB staff and the local agency or equipment owner, the local agency project application, and any local agency's own requirements.
- All final audit reports, local agency or equipment owner responses, and related documents shall be readily available to the public.
- ARB shall conduct sufficient follow-up activities, including conducting follow-up reviews, to ensure that any identified deficiencies are promptly and effectively addressed.

The responsibilities of a local agency during an audit shall include, but are not limited to, the following:

- Ensure that Program files and other requested information are readily available to audit staff.
- At a minimum, participate in the entrance and exit interviews and ensure that local agency or equipment owner staff is cooperative with audit staff.
- Communicate fully with audit staff throughout the course of an audit.
- Make every effort, including requesting assistance from ARB if necessary, to ensure that identified deficiencies are promptly and effectively rectified.

To assist ARB with the audit process, local agencies shall provide to ARB staff, upon request, access to documentation pertaining to the Program which includes, but is not limited to, the following:

- General:
 - Organization charts.
 - Contact information for the Program and accounting designated liaisons.
 - Copies of grant agreements and any (amendments) between ARB and the local agency, ~~and~~
 - Copies of contracts and any amendments between the local agency and the equipment owner.
 - Copies of any contracts and any amendments between the local agency and subcontractors and consultants.
 - Reports filed with ARB, if applicable.
- Accounting records:
 - General ledger chart of accounts.
 - Copies of the policies and procedures for:
 - o Receipt and deposit of project funds.
 - o Review, approval, and payment of project invoices.
 - o Calculation and allocation of Program administration costs.
 - o Tracking and allocating interest earned on the Program.
 - Reports from the general ledger showing receipts, expenditures, interest earnings, and annual balances for projects and local administration during the audit period.
 - Copies of audit reports covering financial statements, operations, and internal controls during the audit period.
 - Access during fieldwork to the following accounting records:
 - o Invoices/claims from the local agency to ARB for Program payments, and invoices from equipment owners to the local agency.
 - o Receipts/deposit slips showing payments received from ARB.
 - o Invoices from subcontractors/consultants to the local agency or equipment owner.
 - o Canceled checks or other expenditure documents supporting payment to the subcontractors/consultants.
 - o Bank statements and reconciliations throughout the audit period.
- Program Records:
 - Reports that list all projects associated with the programs showing:
 - o Equipment project number.
 - o Subcontractor and consultant contact information.
 - o Dates, check numbers, amounts, and funding sources for each equipment project expenditure.
 - o Fiscal year of the funding appropriation for the applicable grant agreement.
 - Copies of any and all records prepared by the local agency, the equipment owner, and any third parties involved in the application, review, inspection, scrapping, or payment steps.
 - Copies of the local agency procedures for review, approval, and submittal of subcontractor invoices for payment.

- Access during fieldwork to the following Program project records:
 - o Contracts between the local agency or equipment owner and the subcontractors/consultants.
 - o Invoices from subcontractors/consultants to the local agency or equipment owner.
 - o Requests to local agency's accounting for payment of project invoices.

The local agency shall retain all records subject to the recordkeeping requirements for local agency projects, including records to meet State and federal bond requirements. Retained records shall include, but are not limited to: local agency file reviews of annual equipment project reports, annual reports provided by equipment owners, any relevant project updates provided by equipment owners, documentation of equipment inspections, accounting records and reports for the fund accounts from which the proceeds were disbursed, and other relevant information.

The local agency agrees to maintain such records as specified in the grant agreement to support a possible audit for 35 years after the bond issuance date and to send all records to ARB by the End Date of the grant agreement in an electronic format to be determined by ARB.

Local agencies shall provide access to all required records and personnel with knowledge of such records to ARB, ~~the Department of Finance DOF, the Bureau of State Audits BSA,~~ or any authorized designee during normal business hours, to conduct Program and fiscal audits.

b) ARB audits of equipment projects

In conjunction with local agency audits, ARB staff or an authorized designee shall also use a risk-based approach to select specific equipment projects. If ARB staff discover non-performance issues with specific equipment projects, the local agency shall be notified to take appropriate action. If ARB staff discovers that the equipment project is not in compliance with ARB regulations, the ARB Enforcement Division shall be notified to take appropriate enforcement action.

6. ARB reporting

ARB staff shall provide regular updates and reports on the implementation status of the Program.

a) Public website

ARB is committed to providing the public with information regarding the status of bond-funded programs. In accordance with ARB policy and Executive Order S-02-07, ARB shall provide periodic data updates on ARB's Program website: <http://www.arb.ca.gov/gmbond>. At a minimum, ARB shall post:

- ~~Local agency ARB semi-annual reports to DOF (compiled from local agency reports).~~
- Local agency project completion reports.
- ARB annual reports.

ARB shall also develop and maintain the Goods Movement Online Database ~~an on-line database~~ showing information and progress on local agency projects, as well as individual equipment projects. This searchable Database will allow the public to find out about projects funded in a specific area-trade corridor, and the implementation status of for each project. ~~ARB staff will develop the local agency project tracking element first. The equipment project element will follow. Once this element is operational, Local agencies shall be required to update the equipment project information quarterly.~~

b) Annual community meetings

In each trade corridor, ARB staff shall co-host along with the local agencies administering local agency projects in that corridor, at least one annual community meeting to provide an update on and opportunity to discuss implementation of the Program.

c) Updates to the Department of Finance

ARB shall ~~forward~~ provide semi-annual and project completion reports ~~submitted by local agencies to the Department of Finance (DOF), based on the reports submitted by local agencies.~~ H&S [§39625.02(f)(1)-(2)].

d) ARB annual report

ARB staff shall prepare an annual report on progress made to implement the Goods Movement Emission Reduction Program ~~once the Board has adopted these Program Guidelines and local agency projects have been selected for funding.~~ Pursuant to [H&S §39627.5], ~~†~~ This report shall be submitted to the Legislature with the Governor's proposed State budget for the ensuing fiscal year, by January 10, and shall include the following minimum elements:

- Description of local agency projects funded by the Program, including the following information for each project:
 - Amount of Program funds allocated.
 - Location.
 - Implementation status.
 - The number of vehicles, pieces of equipment, ship berths, etc., expected to be updated.
 - Estimate of the emission reductions achieved or expected.
 - Any changes to the scope or award amounts of grant agreements.
- Total funds allocated, obligated, and expended under the Program to date ~~by trade corridor and funding category.~~

- Actions undertaken to ensure local agency funded projects are being implemented in a timely fashion and within the budget for Program funds.
- ~~Accomplishments and challenges in implementing the Program.~~

7. Local agency non-performance

Prior to implementing any of the non-performance provisions ~~in this section~~, ARB staff shall make a reasonable effort to work with local agency staff to address and resolve any issues relating to Program implementation.

ARB staff may request a local agency to provide sufficient information to demonstrate what actions the agency will take to obligate and/or liquidate Program funds within the Program or statutory deadlines, if it appears the local agency may be unlikely to meet those deadlines.

a) *Non-performance finding*

If ARB staff identifies instances of local agency non-performance, ARB staff shall issue a written non-performance finding to that local agency.

Local agency non-performance includes, but is not limited to, issues with any one or more of the following areas:

- Misuse of Program funds.
- Funding of ineligible equipment projects or other items.
- Failure to comply with these Guidelines or statutes.
- Failure to meet schedule milestones identified in the grant agreement.
- Failure to obligate or expend Program funds within established timelines.
- Insufficient performance or widespread deficiencies with Program oversight, enforcement, record keeping, contracting provisions, inspections, audit procedures, or any other Program element as determined by ARB staff.
- Exceeding administrative fund allotment.
- Insufficient, incomplete, or faulty project documentation.
- Failure to provide required documentation or reports requested by ARB, DOF, or other agencies in a timely manner.
- Poor performance as determined by an audit conducted by ARB, DOF or other designated agency or contractor.

b) *Local agency appeal process*

Upon notification of a non-performance finding, local agency staff or management may request a meeting with ARB management to dispute or discuss the validity of the non-performance finding. If the disagreement over the validity of the non-performance finding cannot be resolved at the management level, local agency management may appeal to the ARB Executive Officer, or his or her designated representative, whose decision shall be final and binding.

c) *Remedies for non-performance*

(1) Local agency probation

ARB staff shall consider a local agency on probation at the time a non-performance finding is sent to the local agency.

The local agency on probation shall develop a corrective action plan that must be submitted to ARB within 30 days of receipt of the written non-performance finding from ARB.

ARB shall approve or disapprove with recommendations the corrective action plan within 30 working days of receipt from the local agency. To be considered for approval, the corrective action plan must include adequate, expeditious, and enforceable commitments to address the specific non-performance problems, including timeframes to complete each commitment.

If the corrective action plan is approved, ARB staff shall evaluate the local agency's performance under the approved corrective action plan, including timelines, to determine whether the local agency met its commitments and fully addressed the issues for which it was placed on probation. ARB may also impose additional requirements, depending upon the scope or severity of the local agency's non-compliance with Program requirements.

No later than one year from the date the local agency is originally placed on probation, ARB shall do one of the following, whichever ARB in its sole discretion deems appropriate:

- Remove the local agency from probation designation.
- Re-designate the local agency on probation for a period of up to one additional year.
- Re-designate the local agency on probation for a period of up to one additional year, and require that all, or a portion of, the remaining unspent Program funds available for expenditure by ARB and/or the local agency plus any unspent earned interest, are either:
 - Recaptured by ARB, or
 - Revert back to the California Ports Infrastructure, Security, and Air Quality Improvement Account.

ARB may also require local agencies on probation to comply with additional requirements or stipulations prior to future ARB expenditures under existing grant agreement(s), or prior to ARB consideration of future ~~local agency~~ applications from the local agency for Program funds.

If the corrective action plan is disapproved by ARB with recommendations, the local agency shall have 30 days to revise the plan according to the recommendations, and resubmit it to ARB. ARB shall approve the corrective action plan as re-submitted within

30 days, or develop a recommendation to require that all, or a portion of, the remaining Program funds available for expenditure by ARB and/or the local agency plus any unspent earned interest are either:

- Recaptured by ARB, or
- Rrevert back to the California Ports Infrastructure, Security, and Air Quality Improvement Account.

ARB shall make information pertaining to a local agency's probationary status available to the public.

(2) Fund reversion

Program funds automatically revert back to the California Ports Infrastructure, Security, and Air Quality Improvement Account under the following conditions:

- Funds held by ARB revert if ARB does not obligate funds or liquidate funds within the deadlines set forth in State law.
- Funds held by a local agency revert if the local agency does not obligate funds within two years of executing a ~~local agency project grant agreement~~ with ARB, or expend funds within four years of obligation. A local agency may return unused funds ahead of the reversion deadline if the local agency concludes it cannot spend the funds for any reason.
- Funds held by a local agency ~~revert once~~ are recaptured when the local agency withdraws from the Program or its grant agreement is terminated, consistent with State law, irrespective of whether the funds have been obligated but not yet expended.

All Program funds that revert back to the California Ports Infrastructure, Security, and Air Quality Improvement Account are subject to re-appropriation by the Legislature.

ARB and local agencies are released from funding commitments in grant agreements or contracts, as applicable, for any and all funds that are reverted back to the California Ports Infrastructure, Security, and Air Quality Improvement Account. This release does not apply to any contractual obligations the local agency may have with the equipment owner or operators.

(3) Future grant opportunities

A local agency's track record in administering Program funds shall be a factor in ARB's consideration of subsequent applications from that local agency for future funds.

ARB may require local agencies with a current or prior probation designation to comply with additional requirements or stipulations, prior to ARB consideration of future fiscal year Program funds. This may include:

- Exclusion of a local agency from participation in the Program due to past non-performance issues.
- Based on the specific types and seriousness of a local agency's past non-performance issues, limitation(s) on future grant funding opportunities, levels, equipment project option(s), volume(s), or other limitation(s), as determined by ARB on a case-by-case basis.
- The track record of the local agency may also be considered by ARB in conducting its audits of the local agency.

8. State agency non-performance

Prior to implementing any of the non-performance provisions, ARB staff shall make a reasonable effort to work with State agency staff to address and resolve any issues relating to Program implementation.

ARB shall issue a written non-performance finding if ARB staff identifies instances of non-performance.

State agency non-performance includes, but is not limited to, issues with any one or more of the following areas:

- Failure to comply with these Guidelines or statutes.
- Failure to obligate or expend Program funds within established timelines, or to show timely interim progress to meet these timelines.
- Insufficient performance or widespread deficiencies with Program oversight, enforcement, record keeping, contracting provisions, inspections, audit procedures or any other Program element as determined by ARB.
- Misuse of Program funds.
- Funding of ineligible projects or other items.
- Exceeding administrative fund allotment.
- Insufficient, incomplete, or faulty project documentation.
- Failure to provide required documentation or reports requested from ARB, DOF, or other agencies in a timely manner.
- Poor performance as determined by an audit conducted by ARB, DOF, or other designee.

Remedies for non-performance include:

- Recovery of funds
- Constraints on opportunity to compete for future Program funds.

III. Local Agency Project Proposal

Local public entities shall successfully register with ARB according to instructions described in the notice of funding availability (NOFA) before submitting an application for Program funds.

Note: Since the applications will require a substantial investment of time by the local public entity, ARB staff encourages each entity to consult early with ARB staff regarding its ability to meet the requirements of the statute and the Guidelines to qualify as an applicant.

A. Local Agency Registration

Interested local public entities shall submit registration information as required by the ~~Notice of Funding Availability (NOFA)~~ sufficient for ARB to assess the entity's qualification as a local public entity, by the deadline identified in the NOFA.

1. Existing or returning local agencies

Local public entities that have successfully registered as local agencies in the Program for past funding cycles do not need to resubmit registration information. These agencies shall submit the following information:

- Letter of intent to ARB to compete for Program funds for the funding cycle(s) announced in the NOFA.
- Any appropriate updates to the agency contact information.
- Any additional documentation requested by ARB staff.

2. New local agency registration

~~To facilitate ARB review of a local public entity's qualification as an applicant according to the requirements of the statute and the Guidelines, the entity shall submit concurrently with the registration:~~

Local public entities that have not previously registered as local agencies in the Program shall provide sufficient information to demonstrate to ARB that they are eligible to apply as a local public entity. Registration information shall include, at a minimum, the following:

- Type of local agency (air district, seaport, transportation agency, etc.).
- Jurisdiction, including geographic boundaries and trade corridor.
- Mission statement or purpose.
- General information on the entity (total budget, overall work plan or program, etc.).

- ~~Certification that~~ Legal citations and text which establishes the local public entity has the legal authority to implement a regional scale incentive program for freight movement sources that includes: project solicitation, competition for funding, funding awards, execution of contracts, and equipment inspections across the entire trade corridor where the local public entity is based.
- A description of how the local public entity is involved in freight movement or air quality improvements associated with goods movement, as required by the statute. This description shall include the entity's specific roles, authorities, responsibilities, and annual budget for goods movement air quality projects.
- A statement as to whether the local public entity fulfills the additional requirements of these Guidelines and further qualifies as an applicant because it:
 - Is directly responsible for operating a freight movement facility (e.g. seaport or airport); or
 - Has statutory authority for designing and implementing strategies and/or plans to reduce emissions or health risk from air pollution sources (e.g. local air pollution control district and air quality management district); or
 - Has statutory authority for planning and funding regional goods movement infrastructure projects (e.g. regional transportation planning agency).
- Local public entity contact information.

Local public entities shall provide any additional documentation not described above upon request by ARB.

Local public entities shall successfully register with ARB staff prior to submittal of a project application packet.

3. New State agency registration

For the purpose of administering a loan or loan guarantee program only, any State agency, including ARB, is eligible to apply for Program funding. All State agencies shall provide the information in the NOFA to register.

~~B. Local Agency Project Application Packet~~ *(moved to Chapter III.E.)*

B. Legal and Program Restrictions

In the application for funding, local agencies shall certify that the proposed local agency project would meet the requirements of the statute and the Guidelines. This section discusses the legal and Program restrictions on eligible projects.

1. Legal restrictions

Local agencies shall certify that the local agency project would achieve emission reductions not otherwise required by law or regulation. H&S §39625.5(a)(1). "Not otherwise required by law or regulation" means the emission reductions are not required pursuant to any local, State, or federal law, rule, or regulation; any requirements

imposed by the California Environmental Quality Act (CEQA); or any requirements imposed by a legal instrument such as a legal settlement or consent decree (collectively referred to as "law or regulation"). For purposes of this Program only, "not otherwise required by law or regulation" does not apply to any tariff, ordinance, or other requirement imposed by a local agency based on that local agency's authority as a market participant or municipal proprietor or the local agency's authority to enter into contracts with equipment owners and operators.

The following are examples of laws or regulations that may prohibit equipment projects that would otherwise be eligible for funding under this Program. Sub-section (d) below discusses Program funding for equipment projects that may be subject to future ARB regulations.

a) Environmental mitigation

Local agencies shall not request or expend Program funds for equipment projects that are required as a specific California Environmental Quality Act (CEQA) or National Environmental Policy Act (NEPA) mitigation measure in a certified CEQA or NEPA document.

b) Railroad agreements

For locomotives, the statute specifically requires ARB to determine that the emissions reductions that would be achieved by the locomotive equipment project are not necessary to satisfy any mandated emission reduction requirement under an agreement between a railroad company and a state or federal agency, or a local air district. H&S §39625.5(a)(2)(B).

~~The Staff Report discusses~~ There are two Memoranda of Understanding (MOU) that ARB has signed with the Class I railroads – Union Pacific (UP) and Burlington Northern-Santa Fe (BNSF) – to reduce the emissions and health risks from locomotive operations. Program funding shall not be used for idle reduction technology on locomotives (required by the 2005 MOU) or for cleaner locomotives credited towards the railroads' compliance with the 2010 fleet average emission standard for the South Coast Air Basin (required by the 1998 MOU). Locomotive repowers or replacements that go beyond the itemized requirements of these agreements shall be eligible for bond funding.

c) Existing ARB regulations

Local agencies shall not request or expend Program funds for equipment projects that are used to directly comply with existing regulations. The Program can co-fund eligible equipment subject to existing or future regulations, but only if the equipment upgrades are early (completed a set time prior to the compliance date) or extra (the upgrade must go beyond the regulatory requirements, as provided in these Guidelines).

Existing ARB regulations that are currently in place for the following source categories applicable to this Program include, but are not limited to:

- New heavy-duty diesel vehicles – *Exhaust Emissions Standards and Test Procedures -1985 and Subsequent Model Heavy-Duty Engines and Vehicles* (Code of Regulations (CCR), title 13, division 3, chapter 1 §1956.8).
- *In-use on-road heavy-duty trucks and buses - Regulation to Reduce Emissions of Diesel Particulate Matter, Oxides of Nitrogen and Other Criteria Pollutants, and Greenhouse Gases from In-use Heavy Duty Diesel-fueled Vehicles.* (CCR, title 13, chapter 1, article 4.5 §2025).
- Trucks serving ports and intermodal rail yards – *Regulation to Control Emissions from In-Use On-Road Diesel-Fueled Heavy-Duty Drayage Trucks.* (CCR, title 13, division 3, chapter 1, article 3 §2027).
- Heavy-duty truck idling – *Requirements to Reduce Idling Emissions from New and In-Use Trucks* (CCR, title 13, division 3, §1956.8, §2404, §2424, §2425, §2485).
- Truck smoke and emission control inspections – *Heavy-Duty Diesel Smoke Emission Testing, and Heavy-Duty Vehicle Emission Control System Inspections.* (CCR, title 13, division 3, chapter 3.5, §2180-2194).
- Cargo handling equipment – *Regulation for Mobile Cargo Handling Equipment at Ports and Intermodal Rail Yards* (CCR, title 13, division 3, chapter 1 §2479).
- Ships at berth (shore power) – *Operational Hour Limits and Other Requirements for Auxiliary Diesel Engines Operated on Ocean-Going Vessels At-Berth in a California Port.* (CCR, title 13, ~~division 3,~~ chapter 5.1, §2299.3 and title 17, subchapter 7.5, §93118.3).
- Commercial harbor craft engines – *Emission Limits and Requirements for Diesel Engines on Commercial Harbor Craft Operated Within California Waters and 24 Nautical Miles of the California Baseline.* (CCR, title 13, ~~division 3,~~ chapter 4 5.1, article 4.5 §2299.5 and title 17, chapter 1, subchapter 7.5, 93118.5).

Information regarding existing ARB regulations for specific source categories can be found on the following ARB website: <http://www.arb.ca.gov/diesel/mobile.htm>, or in the California Code of Regulations through the Office of Administrative Law (OAL): <http://www.oal.ca.gov/ccr.htm>.

d) ~~Upcoming ARB R~~egulations

Local agencies may request and expend Program funds for equipment upgrades that may be required by a future ARB regulation up until the date of Board action to adopt the regulation.

As of the date of Board action, only equipment projects with executed contracts between the equipment owner and local agency shall be exempt from project completion timing requirements (e.g., ~~three years~~ specified months or years prior to the adopted regulatory compliance date for that equipment upgrade).

Once the Board has taken action to approve a regulation, subsequent equipment projects shall be subject to the project completion timing requirements identified in the equipment project specifications or include emission reductions that go beyond the regulatory requirements. ~~For example, port truck replacements with model year 2007 or newer trucks must be completed three years prior to the regulatory requirement for this replacement.~~

Information regarding upcoming ARB regulations for specific source categories can be found on the following ARB website: <http://www.arb.ca.gov/diesel/mobile.htm>.

~~Local agencies are encouraged to pay specific attention to the ongoing development of the *Proposed Regulation to Reduce Emissions of Diesel Particulate Matter, and Other Pollutants From In-Use Heavy Duty Diesel-Fueled Vehicles*, which may impact a significant number of Program-eligible truck projects.~~

~~2. **Project alternatives for local agencies** (*moved to Chapter III.C.*)~~

- ~~a) *Technology alternatives* (*moved to Chapter III.C.1*)~~
- ~~b) *Project implementation approaches and contractors* (*moved to Chapter III.C.2*)~~
- ~~c) *Procedure/process alternatives* (*moved to Chapter III.C.3*)~~
- ~~d) *Geographic operations* (*moved to Chapter III.C.4*)~~
- ~~e) *Ineligible project alternatives* (*moved to Chapter III.B.2 and renamed Program Restrictions*)~~

2. **Program restrictions** (*moved from Chapter III.B.2.e and formerly named Ineligible project alternatives*)

The local agency shall solicit, accept applications, and fund equipment projects from all equipment owners who meet the eligibility requirements defined in these Guidelines, subject to the local agency project described in the grant agreement as well as the project evaluation and competitive ranking process. Notwithstanding the above, a local agency may exclude from funding eligibility any equipment owner who has a demonstrated inability to meet contractual obligations with the local agency.

A local agency shall not propose or implement any requirements that are inconsistent with these Guidelines, including, but not limited to:

- A local agency applying for Program funds cannot limit the request for funds to only certain project options within source and funding categories. A local agency must administer projects for the entire funding category in the trade corridor.
- A local agency shall not restrict funding eligibility to a preferred individual, company, business entity, or other defined group of equipment owners.
- Other than the exceptions specifically described ~~above~~ in Chapter III.C.4, a local agency shall not restrict funding eligibility to equipment that operates solely or primarily within its jurisdictional boundaries.

- A local agency shall not restrict equipment projects to replacement or retrofit equipment manufactured or sold by a single-specified company or companies. The local agency shall allow all eligible equipment projects that meet the emissions performance level detailed in the project specifications of these Guidelines to compete for Program funding.
- A local agency shall not restrict equipment projects to equipment sold by a truck dealer or retrofit vender with a contract or MOU to do pre-inspections.
- The local agency shall not propose or allow equipment projects to be completed less time in advance of a regulatory requirement than provided for in the project specification.
- A local agency shall not impose travel restrictions on Program-funded equipment beyond the operating limitations defined in these Guidelines and any approved alternatives described in ~~the preceding section~~ Chapter III.C.4. For example, a local agency cannot restrict the travel (or a portion of the travel) of trucks or line-haul locomotives to within a single city, county, air district, air basin, trade corridor, or similar geographic area that is smaller than the four trade corridors or the State of California.
- A local agency shall not fund equipment projects failing to meet the minimum equipment project requirements listed in Appendices A-~~F~~H of these Guidelines. In conjunction with the minimum equipment project requirements, a local agency shall not fund higher emitting equipment, pay more per piece of equipment, modify the project life options, remove the project eligibility and other requirements, or relax the operating conditions as compared to the specifications in these Guidelines for each equipment project option.
- A local agency shall not impose non-air quality requirements (like fees or employee drivers) on Program-funded equipment projects.

~~3. Completed application~~ *(moved to Chapter III.E and renamed Local Agency Project Application)*

- ~~a) General local agency information~~ *(moved to Chapter III.E.1)*
- ~~b) Local agency project proposal~~ *(moved to Chapter III.E.2)*
- ~~c) Air quality benefits~~ *(moved to Chapter III.E.5)*
- ~~d) Project schedule~~ *(moved to Chapter III.E.7)*
- ~~e) Funding demonstration~~ *(moved to Chapter III.E.3)*
- ~~f) Staff resources~~ *(moved to Chapter III.E.6)*
- ~~g) Local agency implementation demonstration~~ *(moved to Chapter III.E.8 and renamed Certification to comply with Program requirements)*

C. ~~Local Agency Project Grant Agreement~~
C. Project Alternatives for Local Agencies *(moved from Chapter III.B.2)*

~~Local agency project grant agreements and requirements are described in Chapter II.D.10 above.~~

Under this Program, a “local agency project” is defined as the ~~source~~funding category-specific incentive program that the local agency proposes to implement with Program funding.

~~This section lists the alternatives that a local agency may and may not propose to make to the specifications for each equipment project option described in these Guidelines. If a local agency wants to implement one or more acceptable alternatives, the local agency shall clearly describe the alternative(s) for each equipment project option in the local agency application, along with the basis for the alternative(s) proposed.~~

These Guidelines limit eligibility for Program funds to equipment with recent operation in one or more trade corridors. Except as provided in Chapters III.B.1 and III.B.2, local agencies may customize their proposal(s) for each funding category, by incorporating any of the Program alternatives listed below, if clearly stated in the application and approved by ARB staff.

ARB staff may, at its discretion, expand the following list of alternatives to include additional items that do not fundamentally alter the equipment project eligibility criteria, the equipment project requirements and operating conditions, or the effectiveness of those provisions in reducing emissions.

1. Technology alternatives *(moved from Chapter III.B.2.a)*

The local agency must solicit, evaluate, and fund applications for all project options within a funding category. The local agency may propose to customize its ~~source category-specific~~ proposal by incorporating any of the following approved technology alternatives:

- ~~• Within a source category, a local agency may propose to implement one or more of the equipment project options defined in these Guidelines. The local agency shall identify each desired equipment project option on the local agency project application. If the local agency is requesting funding for multiple equipment project options within a source category, the local agency shall describe each option and itemize the associated emissions, reductions, costs, Program funding requested, and cost-effectiveness for each option within the application. If that local agency project is funded, ARB will expect the local agency to solicit applications for the proposed equipment project options, and then evaluate and competitively rank all of the applications within the source category against each other. Because of the need~~

~~for competition across equipment project options, the final mix of equipment projects funded by the local agency may differ from the local agency project application.~~

- ~~Within an equipment project option, a~~ A local agency may propose to offer non-Program funding for equipment that meets an emissions performance standard that requires lower emissions than the specifications in these Guidelines, provided the technology to meet that standard is demonstrated, verified by ARB (if applicable) and commercially available. This alternative is subject to the following restrictions:
 - The local agency shall not propose to offer Program funding at a level for each equipment project that exceeds the funding caps in these Guidelines.
 - The local agency shall not require equipment meeting lower emission standards than the emissions levels for the equipment project options in these Guidelines.
 - The local agency shall not propose to restrict eligibility for Program funding to equipment projects that utilize the additional funding to meet the lower emission standards (i.e., any equipment project that meets the minimum specifications established in these Guidelines must be eligible to compete for Program funding administered by the local agency for that ~~equipment project option~~ funding category).

~~For example, a local agency may propose a truck retrofit program that does not require but offers additional funds for both diesel PM and NOx controls; with the Program paying \$5,000 per truck towards the PM control element and the local agency providing supplemental funding from another, non-State source for the additional NOx control. Following ARB approval of the local agency project, the local agency shall solicit equipment applications for both the lower emission PM/NOx retrofit approach as well as the truck retrofit approach listed in the program Guidelines.~~

~~Similarly~~ For example, a local agency could propose a truck program that does not require but offers additional funds for replacement with natural gas; with the Program paying up to the maximum \$560,000 per truck and the local agency providing funding from another, non-State source for the incremental cost of natural gas. Following ARB approval of the local agency project, the local agency shall solicit equipment applications for both the lower emission natural gas replacement approach as well as the truck replacement approach listed in the ~~p~~Program Guidelines.

- ~~Within an equipment project option, a~~ A local agency may propose to offer non-Program funding for equipment monitoring or tracking devices (like global positioning systems (GPS) or radio-frequency identification (RFID) devices). In this case, the local agency shall commit to monitor the equipment for the project life. The local agency shall also make provisions acceptable to ARB staff for access to the data collected on individual vehicles, vessels or equipment and periodic data reports.
- ~~Within an equipment project option, a~~ A local agency may propose to offer non-Program funding for efficiency upgrades, like aerodynamic devices on trucks.

2. **Project implementation approaches and contractors** *(moved from Chapter III.B.2.b)*

A local agency project implementation approach is defined as the mechanism(s) a local agency may propose to implement a local agency project. For example, as part of a single local agency project, a local agency may propose to directly administer grants to truck owners for replacement projects and to hire a contractor or other third party to run a truck retrofit program. Each of these is an implementation approach.

The local agency may propose to customize its ~~source-category specific~~ proposal by incorporating any of the following ~~alternatives approved implementation approaches and use of contractors~~, if clearly stated in the application and approved by ARB staff:

- ~~Within a source category or an equipment project option, a~~ local agency may propose a combination of implementation approaches to target recruitment of eligible projects and administration of funds for selected projects.
- The local agency may apply for Program funds to be administered in full or in part by a third party contractor or contractors, but shall retain full responsibility for the Program requirements and deadlines specified in these Guidelines and executed grant agreements with ARB. Any third party overhead and administration costs shall count against the cap established in these Guidelines for local agency administration funds.

Program requirements for implementation approaches:

- Regardless of the local agency's use of multiple implementation approaches or third party contractors, the competitive ranking process must take place across the entire source funding category to ensure fair and equitable competition between eligible equipment projects.
- The local agency shall not commit or obligate Program funds to specific project implementation approaches or third party contractors prior to the completion of the competitive ranking process.

For example, as part of a single local agency project, a port may propose to employ three contractors to run truck replacement programs – one focused on a lease-to-own program for diesel trucks, one on leasing natural gas trucks, and one on offering grants to truck owners for purchase of new trucks. These contractors can each market their project implementation approach and solicit applications for eligible truck projects, consistent with these Guidelines and the project grant agreement. The port must then competitively rank the applications from all three contractors together to determine which specific equipment projects will be funded. The contractors can then administer the funding for the equipment projects selected from the competitive process.

3. Procedure/process alternatives *(moved from Chapter III.B.2.c)*

The local agency may propose to customize its ~~source-category specific-proposal~~ by incorporating any of the following ~~acceptable-procedure/process alternatives~~, if clearly stated in the application and approved by ARB staff:

- ~~Within an equipment project option, a A local agency can shorten the time allowed from execution of the equipment project contract to the project becoming operational, consistent with typical and customary schedules to complete such projects.~~
- ~~Staff recommends that local agencies carefully consider the potential of this alternative to increase fund reversion alternative due to non-performance. The local agency shall not propose or allow equipment projects to be completed less time in advance of a regulatory requirement than provided for in the project specification.~~
- ~~Within a source category or equipment option, a A local agency can expand the list of information required on an equipment project application or the reporting requirements for equipment options.~~
- ~~Within a source category or equipment option, a A local agency can expand the equipment inspection or scrappage requirements.~~

4. Geographic operations *(moved from Chapter III.B.2.d)*

For clarity, this section describes both the geographic requirements that a local agency must implement and the specific situations where the local agency may propose to customize its ~~source-category specific-proposal~~ by incorporating geographic alternatives. The local agency application shall clearly describe, if applicable, any proposed geographic alternatives. ARB staff expects that local agencies will propose to administer local agency projects for equipment that operates in the trade corridors, including the corridor where the local agency has jurisdiction.

These Guidelines limit eligibility for Program funds to equipment with recent operation in one or more trade corridors. Except as provided below, a local agency may not propose or implement a local agency project that restricts access to Program funding to equipment operating at a single facility or within a single city, county, air district, air basin, trade corridor, or similar geographic area that is smaller than the four trade corridors or the State of California.

- ~~Trucks serving ports. A local agency that applies for funds to administer a retrofit, repower, or replacement program for port trucks may propose to restrict eligibility to trucks serving one or more major seaports in the trade corridor where the local agency has jurisdiction. The local agency shall specify which seaport(s) the proposed project would cover and the estimated number of eligible trucks serving that seaport. The local agency shall recruit all eligible trucks serving the specified seaport(s), regardless of where in California the trucks are based. The local agency shall similarly fund eligible trucks serving the specified seaport(s), subject to review of equipment project applications and the competitive ranking process.~~

- ~~Trucks serving intermodal rail yards.~~ A local agency that applies for funds to retrofit, repower, or replace trucks serving intermodal rail yards must recruit all eligible trucks serving intermodal rail yards that are located in the trade corridor where the local agency has jurisdiction and covered by ARB's December 2007 rule. The local agency shall similarly fund all eligible trucks serving intermodal rail yards in the corridor, subject to review of equipment project applications and the competitive ranking process.
- Other Trucks. A local agency that applies for truck funds to retrofit, repower, or replace other trucks, or to implement a three-way transaction shall recruit eligible trucks that travel within the trade corridor and eligible truck stop/distribution centers within the trade corridor where the local agency has jurisdiction. The local agency shall accept applications and fund all eligible trucks that travel within the four trade corridors, regardless of where those trucks are based, subject to review of equipment project applications and the competitive ranking process. A local agency may propose to offer (for replacement projects only) an option for 90 percent operation in California at a reduced funding amount with the requirement for the installation of a global positioning system (GPS). A local agency may propose to add an eligibility requirement that the old truck must have traveled at least 10% percent of its annual miles within the trade corridor where the local agency has jurisdiction. This requirement would be added to the base Program requirements that ~~both the old truck traveled at least 75 percent of its annual miles within California~~ and the new truck travel at least 50% percent of its annual miles within the four trade corridors, ~~and that the new trucks travel as well as 90 percent or 100% percent of its miles in California, as applicable.~~ A local agency may require that truck stops and distribution centers eligible for funding be located within the trade corridor where the local agency has jurisdiction.
- Switcher Locomotives. A local agency that applies for locomotive funds to ~~administer a program for switcher locomotives~~ may require that both the old and new switcher locomotive operate full-time within the trade corridor where the local agency has jurisdiction, except for periodic maintenance in another region or neighboring state. ~~Line-haul locomotives.~~ ~~A local agency that applies for funds to administer a program for line-haul locomotives may~~ The local agency may also require that both the old and new line-haul locomotive operate at least 10% percent of the time in the corridor where the local agency has jurisdiction, and full-time within California, except for periodic maintenance in a neighboring state. The local agency shall recruit all eligible line-haul locomotives operating in the trade corridor, regardless of where in California the locomotives are based. The local agency shall similarly fund all eligible line-haul locomotives serving that trade corridor and others, subject to review of equipment project applications and the competitive ranking process. A local agency may require that rail yards eligible for funding to install a locomotive emissions capture and control system be located in the trade corridor where the local agency has jurisdiction.

- Harbor craft. A local agency that applies for harbor craft funds to ~~administer a harbor craft repower or replacement program~~ may propose to restrict eligibility to vessels that are home-ported in the trade corridor where the local agency has jurisdiction. ~~The local agency shall specify which seaport(s) the proposed project would cover and the estimated number of eligible harbor craft serving that seaport, including the number of craft that are subject to ARB's December 2007 regulation.~~
- Ships at berth-Shore power. A local agency that applies for ships at berth funds to ~~administer a shore power program~~ may restrict eligibility to ~~one or more seaports~~ within the trade corridor where the local agency has jurisdiction. ~~The local agency shall specify which seaport(s) the proposed project would cover and the estimated number of berths at each seaport that are subject to ARB's December 2007 regulation.~~
- Cargo handling equipment. A local agency that applies for cargo equipment funds to ~~administer a cargo handling equipment program to install energy storage systems on rubber-tired gantry cranes~~ may restrict eligibility to equipment operating at ports and rail yards ~~one or more seaports, or all intermodal rail yards,~~ within the trade corridor where the local agency has jurisdiction.

Note: Because seaports can apply directly to ARB, but railroads cannot, a seaport applying to administer projects within the combined ships at berth and cargo equipment funding category must solicit, evaluate, and fund equipment projects at any seaport or rail yard within the trade corridor where the local agency has jurisdiction.

- ~~Truck stop or distribution center electrification. A local agency that applies for funds to administer a program for electrification infrastructure to reduce engine idling and use of internal combustion auxiliary power systems at truck stops, intermodal facilities, distribution centers, and other places where trucks congregate may restrict eligibility to facilities within the trade corridor where the local agency has jurisdiction. The local agency shall recruit all eligible truck stops and distribution centers operating in the trade corridor and shall similarly fund all eligible projects within that trade corridor, subject to review of equipment project applications and the competitive ranking process.~~

D. Local Agency Project Implementation Requirements *(moved to Chapter IV and renamed Local Agency Project Implementation)*

D. Local Agency Pre-Application Community Meeting *(moved from Chapter III.D.1.a)*

~~For FY2007-08 funds, †The local agency shall hold at least one community meeting prior to the submittal of the local agency project application to solicit public input on the source funding categories and equipment project options to be addressed in the local agency project proposal. The local agency shall consider public input as it develops the local agency project application. In subsequent funding cycles, the local agency shall~~

~~expand the opportunities for community participation in the development of the application.~~

At a minimum, the local agency project application shall identify when and where the community meeting(s) was held, and what methods were used to advertise the meeting(s). The application shall also include documentation of the attendance, and provide a brief summary of the comments received.

~~The local agency shall also commit to co-hosting with ARB staff at least one community meeting in the trade corridor each year to provide updates on the implementation of the local agency project.~~

E. Local Agency Project Application Packet *(moved from Chapter III.B.3)*

Local public entities that have successfully registered shall submit **one complete local agency application packet** with an original signature by an authorized local agency representative **for each funding source category.** Applications packets shall be submitted to ARB by the NOFA deadline and according to the instructions contained in the NOFA. The completed application packet shall include the following:

- Completed application, including a written acknowledgement that ARB staff may prorate the proposed local agency project at a lower level of funding and proportionally lower performance measures (vehicles, equipment, harbor craft or berths to be updated; and the resulting emission reductions).
- Local agency board/commission resolution (see Chapter III.E.9).

~~On-line local agency project applications are scheduled to be available in time for the FY2007-08 funding cycle. If available, local agencies shall utilize the on-line application to submit local agency project application packets.~~

~~Local agency project applications are also subject to the statutory legal restrictions described below.~~

(The following was moved from Chapter III.B.3)

~~Local agencies shall complete a local agency project application, and submit it with an original signature by an authorized local agency representative.~~

All application information shall be provided or the application shall be considered incomplete. Updates to any application information after the submittal deadline shall only be allowed on a case-by-case basis, at the discretion of ARB staff.

The local agency project application shall include, at minimum, the following information.

1. General information *(moved from Chapter III.B.3.a)*

The local agency shall include general information about the local agency consisting of, at minimum, the following:

- ~~A general description of the local agency, its geographic boundaries, regional demographics and statistics, agency roles and functions, and its relationship to goods movement and air quality.~~
- A description of the local agency's experience administering other incentive programs. If the local agency has implemented more than one type of incentive program, describe the program that is most similar to the ~~source category that is being applied for project proposal~~ first; then any other incentive programs. At minimum, the description of prior experience shall include:
 - Purpose of the incentive program (equipment upgrades, new technologies, etc.).
 - How long the local agency has administered the program.
 - Annual funding amounts.
 - General Description and quantification of the equipment purchased through the program.
 - Successful outreach strategies used to solicit participation.
 - Overview of the monitoring and reporting under the program.
- Staff contact information.
- ~~Other general information as requested on the online application.~~

The State agency shall include general information about the State agency consisting of, at minimum, the following:

- Type of State agency (environmental, finance, business, transportation, etc.).
- Mission statement or purpose.
- General information on the entity (type of programs and budget).
- A description of how the State agency is involved in providing financial assistance, such as grants or loan or loan guarantee programs. This description shall include the agency's specific roles, authorities, responsibilities, and annual budget for these programs.
- State agency contact information.

2. Local agency pProject proposal *(moved from Chapter III.B.3.b)*

The local or State agency shall provide the following information about the local agency's proposed ~~local agency~~ project. The local or State agency shall at a minimum:

- Identify the trade corridor(s) targeted.
- Identify the ~~source-funding~~ category(s).
- ~~Identify the specific equipment project options targeted, along with all equipment project assumptions necessary to calculate project benefits as described below.~~
- Identify any proposed ~~local agency~~ project implementation approaches.

- Identify and detail any proposals to allow lease-to-own programs.
- Identify any proposed project alternatives consistent with Chapter III.C.
- Describe the air quality problems and key contributing pollutants in the trade corridor.
- Describe how the ~~local agency~~ project is consistent with local and regional plans to reduce emissions from goods movement activities, or consistent with the regional strategies in ARB's 2006 *Emission Reduction Plan for Ports and Goods Movement in California* or the *State Implementation Plan*. At minimum, this description shall include the strategies or measures identified in these goods movement plans that are addressed by the local agency project proposal.
- Other related information requested by ARB staff.

3. Provisions to customize proposal

The agency application shall clearly indicate, for each funding category, if the agency is proposing to customize its proposal by incorporating any of the approved Program options described in Chapter III.C:

- Technology alternatives.
- Project implementation approaches and use of contractors.
- Procedure/process alternatives.
- Geographical operations.

The application shall describe the reasons for each alternative proposed.

4. Funding demonstration *(moved from Chapter III.B.3.e)*

The local or State agency shall include a funding demonstration for each ~~local agency~~ project.

Elements of funding demonstration. This funding demonstration shall include, but is not limited to:

- Documentation of the local or State agency's fiscal ability to implement the proposed local agency project.
- A copy of the local agency's most recent final fiscal audit.

a) Program funds requested

- The total cost of the ~~local agency~~ project, including the estimated per unit cost for new equipment. For grid-based shore power projects and harbor craft projects, the local agency may estimate the total cost of the project in the anticipated completion year.
- The amount of Program funds requested from ARB, including the breakdown of equipment project funds and administration funds, subject to the limits in these Guidelines.

b) Match funding requirements

The local or State agency shall identify all non-Program match funding and provide the following minimum documentation:

- The specific sources of the matching funds, including private, federal, local, applicable other State, and non-applicable other State (see Chapter IV.A.6. regarding which types of other State funding are applicable for purposes of calculating the cost-effectiveness under this Program). If a local air district proposes to co-fund ~~truck~~ projects with the monies derived from the \$2 surcharge on vehicle registration fees authorized by AB 923 (Chapter 707, Statutes of 2004), these monies must be identified as applicable other State funds in this demonstration.
- For each source of match funding:
 - Name of the program.
 - The amount.
 - Any conditions or restrictions associated with its use as well as.
 - Any timeframe requirements associated with its expenditure.
- A demonstration that all non-Program match funds are reasonably available within the timeframes of the ~~local agency~~ project schedule.
- ~~A copy of the local agency's most recent final fiscal audit.~~

If a local agency wishes ARB to consider the availability of non-private match funds as a supporting factor in its allocation and award of Program grants, the local agency must submit the following additional documentation:

- For each entity identified as a source of matching funds, attach the entity's approved governing board or commission resolution (if a public agency) or a letter signed by an authorized representative (if a federal agency), stating:
 - A commitment from the entity to provide such funds for the stated purpose, including the amount, any conditions and restrictions associated with their use, and any timeframe requirements associated with their expenditure.

ARB staff may, on a case-by-case basis, allow the written commitment to be submitted up to 20 calendar days after the application deadline.

5. Air quality benefits (moved from Chapter III.B.3.c)

The local agency shall use the Goods Movement Online Database Project Benefits Calculator provided by ARB to quantify the emission reductions and cost-effectiveness of a proposed local agency project (see the Program website at: <http://www.arb.ca.gov/gmbond>). The local agency shall enter the required funding and project information into the Database. Based on that information, the Database will calculate the estimated air quality benefits and cost-effectiveness for the local agency project.

If a local agency identifies an eligible local agency project that cannot be quantified with the Project Benefits Calculator Database for that source funding category, the local agency should contact ARB staff for guidance. Any State agency applying for funds to administer a loan or loan guarantee program should contact ARB staff for assistance to determine the benefits and cost-effectiveness.

If the proposal includes multiple equipment project options, the local agency shall quantify and report the emission reductions, costs, and reductions per State dollar separately for each, as well as the total for the source category.

If a local agency is seeking funding for implementation approaches for a single equipment project option (for example, three distinct truck replacement programs run by different contractors with different levels of State funding and/or different emission performance levels), the local agency shall quantify and report the emission reductions, costs, and reductions per State dollar separately for each approach, as well as the total for the equipment project option.

6. Staff resources (moved from Chapter III.B.3.f)

The local agency application shall identify and describe the staff resources necessary to effectively implement the local agency project proposal. This includes documentation of existing and planned staffing, with an indication of when planned staff will be hired.

The local agency shall affirmatively demonstrate that the agency has or will have the necessary resources in place to meet the demands of the project(s) type and scope. The staff demonstration shall be based, if applicable, on the local agency's prior experience implementing incentive programs that are similar to the funding category in the proposal. Agencies with prior experience implementing diesel engine or other incentive programs should provide documentation on their own statistics regarding the relationship between the number of pieces of equipment that can be upgraded in a given timeframe and the number of program staff needed to accomplish those upgrade projects. Agencies without prior experience implementing incentive programs for the proposed funding category should contact ARB or a local agency in the local air district in the region to obtain assistance with assessing the staff resources the agency will need to meet the demands of the project(s) relevant statistics.

The staff resources demonstration shall include the following minimum documentation:

- Description of the local agency's staffing levels and experience in administering other incentive program funds (if applicable).
- Description of the basis for the proposed staffing levels if the local agency does not have prior incentive program experience.

- ~~Description/list of the staff classifications that are available or will be available to implement the project, including:~~
 - ~~— At least one supervisor/manager to oversee the local agency project.~~
 - ~~— Program staff to solicit, evaluate, competitively rank, inspect, fund, and audit equipment projects; as well as prepare database updates and reports.~~
 - ~~— Other staff in the following categories:~~
 - ~~Field inspectors for equipment inspections.~~
 - ~~Fiscal/accounting staff.~~
 - ~~Computer assistance/database management staff.~~
 - ~~Legal staff.~~
 - ~~Clerical support staff.~~
 - ~~Temporary staff (students, limited term, etc.).~~

The local agency shall provide documentation regarding the relationship between the number of pieces of equipment that can be upgraded in a given timeframe and the number of Program staff needed to accomplish those upgrades. The information shall include, but is not limited to, the following (based on experience):

- Purpose of the prior incentive program(s).
- Time administering the prior program(s).
- Total incentive funds administered by the local agency under the prior program(s) in the last 2 years.
- Total pieces of equipment contracted under the prior program(s) in the last 2 years.
- Total staff positions (in equivalent PYs) assigned to implement incentive funds under the prior program(s) in the last 2 years.
- Plans to hire or contract additional staff to implement funding requested.
- List of staff classifications, in equivalent PYs, that are available or will be available to implement the project, including:
 - Program staff (marketing/outreach, grants, contracts, inspections, audits, etc).
 - Managerial staff.
 - Administrative support staff.
 - Fiscal and accounting staff.

7. Project schedule *(moved from Chapter III.B.3.d)*

~~The local agency shall include a detailed local agency project schedule.~~

At a minimum, the local agency project schedule shall provide ~~either the anticipated date or the approximate number of weeks necessary to accomplish each of the milestones identified below.~~ (following the execution of grant agreements and the receipt of the project Start Letter from ARB).

~~The local agency project schedule shall incorporate local agency obligation and liquidation deadlines identified in Chapter III.E.1 & 2.~~

~~The local agency project schedule shall include, but is not limited to:~~

- ~~• Date of community participation event (see Chapter III.D.1).~~
- ~~• Anticipated (ARB) Board approval of local agency projects (see NOFA, when published).~~
- ~~• Anticipated execution date of local agency project grant agreement.~~
- ~~• Anticipated date of initial grant expenditure request to ARB and amount.~~
- Equipment project solicitation period, including marketing/outreach.
- Equipment project application review period.
- Competitive ranking and selection of equipment projects and webposting.
- ~~• Selection of equipment projects from the competitively ranked list.~~
- ~~• Anticipated date of next grant expenditure request to ARB and amount.~~
- Equipment owner notification period.
- Equipment pre-inspection period (as applicable).
- Contract signature period.
- ~~• Local agency obligation deadline (all contracts must be signed).~~
- Equipment post-inspection period.
- Liquidation period.
- ~~• Local agency liquidation deadline (all equipment funds must be liquidated).~~
- ~~• Anticipated submittal of local agency project completion report.~~

The State agency project schedule shall identify the key milestones and the approximate number of weeks necessary to accomplish each of the milestones, following the execution of an interagency agreement (where applicable) and notification from ARB that there is bond funding available to begin the project.

8. Certification to comply with Program requirements *(moved from Chap III.B.3.g and renamed from Local agency project implementation demonstration)*

~~The local agency shall describe in detail how it will implement the local agency project to demonstrate its ability.~~ The local agency shall include a certification that it has the ability and intent to fully and effectively satisfy each of the proposed local agency project implementation requirements detailed in Chapter III of these Guidelines including, but not limited to, those listed below. Local agencies currently administering incentive programs similar to this Program may use existing policies and procedures that are modified to reflect the unique requirements of this Program.

~~This demonstration shall include a description of how the local agency will structure its program to meet each requirement summarized below; including substantive detail (wherever possible) regarding the procedures the agency will use to implement each provision.~~

- Support public participation.
- Conduct marketing and solicit equipment project applications (including targeted outreach and assistance to independent truck owner-operators).
- Review and competitively rank project applications (including web posting).
- Select equipment projects for funding, ~~(including any local board/commission approval process).~~
- Conduct equipment pre-inspections and compliance checks.
- Notify equipment owners of the status of their application.
- Execute equipment project contracts.
- Ensure equipment scrappage where required.
- Conduct post-inspections of new or upgraded equipment.
- Request expenditures from ARB.
- Process invoices and requests from equipment owners for payment (including direct payments to vendors and reimbursements).
- Calculate and report earned interest.
- Evaluate equipment projects and assess on-going compliance with contract conditions.
- Provide required reports to ARB (including the ability to submit equipment project data electronically when requested).
- Participate in Program and fiscal audits.

~~This demonstration shall also be evidence of the local agency's ability to deliver the proposed project scope (see Chapter II.D.4) and its readiness to quickly begin implementation and deliver air quality results (see Chapter II.B.3).~~

A state agency shall include a certification that will comply with all requirements that are applicable to loan or loan guarantee projects. State agencies shall also include a description of proposed actions to evaluate loan and loan guarantee projects on an ongoing basis to meet the accountability requirements of SB 88 and the Governor's Executive Order S-02-07.

9. Local agency board/commission resolutions *(moved from Chapter III.B.4)*

The local agency shall ~~include~~ provide ARB with a resolution of the local agency governing board or commission that authorizes the local agency to enter into a ~~local agency~~ grant agreement with ARB, accept funds, and provide any matching funds under the fiduciary control of the local agency that are identified in the local agency project funding demonstration.

The local agency resolution shall also clearly identify the local agency's board/commission role or board/commission delegations to local agency staff for the following:

- The local agency representative authorized to sign and submit the local agency project application.
- The local agency representative authorized to sign/execute a ~~local agency project~~ grant agreement between ARB and the local agency.
- The approval of a competitively ranked equipment project list indicated the equipment projects selected for funding and a backup list of eligible equipment projects.
- The local agency representative authorized to sign/execute an equipment project contract between the local agency and equipment owner.
- The local agency representative authorized to sign Grant Expenditure Requests and delegate signature authorization to others.

The local agency resolution shall also identify all sources and amounts of non-private matching funds committed to Program projects, and shall state any conditions and time constraints associated with those funds.

ARB staff may, on a case-by-case basis, allow a local agency to submit its approved resolution up to 20 calendar days after the application deadline.

For loan projects, if required by the State agency that is accepting the funds, the State agency will provide ARB with a resolution or similar document that authorizes the State agency to enter into an interagency agreement with ARB and accept funds.

IV. Local Agency Project Implementation Requirements

(moved from Chapter III.D)

A. Project Implementation Requirements

1. Community and public participation

~~a) Community meetings (moved to Chapter III.D and renamed Local Agency Pre-application Community Meeting)~~

~~a) ~~b) Public and interested stakeholder participation~~~~

~~The local agency application shall include a description of the local agency's strategy for the public and interested stakeholders during the implementation of the proposed local agency project.~~

The local agency shall identify and implement mechanisms for the public to provide input to the local agency on the equipment project solicitations, the competitively ranked list of equipment projects, the periodic progress reports, and the equipment project status updates on the ARB website (and the local agency website, if applicable).

The local agency shall also commit to co-hosting with ARB staff at least one community meeting in the trade corridor each year to provide updates on the implementation of the local agency project.

~~b) ~~e) Public website~~~~

The local agency shall maintain a Program public website available to the public. Prior to the first solicitation for projects, the local agency shall include an easily identifiable Program hyperlink visible and active directly from the agency's main webpage (or the main page for incentive programs). The website shall contain, at a minimum, the following information:

- Local agency contact information.
- A link to ARB's Program website (<http://www.arb.ca.gov/gmbond>).
- Information pertaining to equipment project solicitations.
- The competitively ranked equipment project list(s), when available.

To enhance outreach efforts and Program transparency, the local agency shall submit a website link to ARB containing specific local agency program information, including information on community meetings or public workshop announcements which will then be posted on ARB's Program website.

2. Equipment project marketing tools

The local agency shall use marketing strategies that specifically target the owners of Program-eligible equipment covered by the local agency project, and operating in the trade corridor, regardless of where that equipment is based.

Local agencies shall provide technical and administrative assistance to equipment project applicants to help them understand and apply for equipment projects.

a) *Marketing tools*

Local agencies shall ~~identify and use at least three marketing tools (more are encouraged, but not required).~~ Examples include: advertise the Program to a broad and diverse audience. The local agency's strategies should include some of the marketing tools below:

- Develop and maintain list of interested parties.
- Use web-based marketing.
- Advertise and post announcements in local newspaper(s) and trade journals, including non-English publications.
- Use radio advertisements.
- Issue public notices.
- Distribute brochures/fact sheets/community newsletters.
- Partner with trade associations, dealerships, truck stops, ports, and railroads.
- Hold outreach events at locations where targeted audience(s) typically congregate.
- Use direct mail campaign(s).

b) *Outreach to independent truck owner/operators*

For truck programs, the local agency shall design and implement a targeted outreach program for independent owner/operators to inform them about Program funding opportunities and to assist them in completing equipment project applications. The local agency should hold some outreach events outside of normal working hours to allow more independent owner operators to attend.

The outreach information shall include, at a minimum, the Program funding available, equipment and operating requirements, and application deadlines. Marketing tools to reach this audience may include, but are not limited to:

- Education and application assistance via a kiosk set up near a location where independent truck drivers congregate.
- ~~Outreach during typical off-times for truck drivers.~~
- A toll free number for equipment project applicants to check the status of applications or get phone assistance in completing an application, including access in languages other than English.

- A notice in local papers or other written material of funding availability (including papers published in languages other than English).

c) *Information on truck efficiency upgrades*

For truck programs, the local agency shall make information available to equipment owners regarding upgrades to improve fuel efficiency, especially for long-haul trucks. Technologies that improve fuel efficiency for trucks may include devices that reduce aerodynamic drag and rolling resistance. Aerodynamic drag may be reduced using devices such as cab roof fairings, cab side gap fairings, cab side skirts, and on the trailer side, trailer side skirts, gap fairings, and trailer tail. Rolling resistance may be reduced using single wide tires or low-rolling resistance tires and automatic tire inflation systems on both the tractor and the trailer. These upgrades offer the potential to cut emissions of greenhouse gases and criteria pollutants, with a two to three year payback period through lower fuel costs. The benefits are variable based on the type of truck operations.

~~On December 11, 2008, ARB is developing a regulation for truck efficiency upgrades to cut greenhouse gases, for consideration by the Board in 2008 adopted a Regulation To Reduce Greenhouse Gas Emissions From Heavy-Duty Vehicles (CCR, title 17, section 95300). The regulation applies primarily to owners of 53-foot or longer box-type trailers requiring their trucks and trailers to become more fuel efficient. Truck owners may be interested in including responsible for replacing or retrofitting their affected vehicles with efficiency upgrades that fit their operating profile when purchasing a new truck or retrofitting a PM filter with bond funding under this Program. While this Program does not provide funding for the efficiency upgrades, other incentive programs may help offset the purchase cost or help finance the purchase of the upgrades, including ARB's Providing Loan Assistance for California Equipment (PLACE) Program (<http://www.arb.ca.gov/ba/loan/on-road/on-road.htm>). For example, U.S. EPA, in collaboration with the freight industry, has developed the SmartWay Transport Partnership to increase energy efficiency while significantly reducing greenhouse gases and criteria pollutants. This program also designates technology packages as SmartWay Upgrade Kits, which can be purchased at various SmartWay partner centers, dealerships, and service centers (<http://www.epa.gov/otaq/smartway/documents/420f07027.htm>). Some California air districts are working to expand this program in California.~~

d) *Outreach to small businesses for infrastructure construction*

AB 761 (Chapter 611, Statutes of 2007) imposes requirements on State agencies awarding bond-funded contracts to encourage the participation of small businesses in the construction of the State's infrastructure. Government Code Section 14838.1. Under SB 88, ARB cannot directly award contracts to build infrastructure under the Program and is therefore not subject to the requirements of AB 761. However, ARB can impose requirements to meet the spirit of the law when it provides funds via grant agreements to local agencies to build the electric infrastructure to support both grid-

based shore power for ships at berth and electric truck pedestals at truck stops or distribution centers.

For grid-based shore power and truck stop/distribution center electrification projects, the local agency shall design and implement a targeted outreach program to encourage small businesses to participate in the construction, alteration, demolition, repair, or improvement of the project infrastructure funded by the bond Program. Outreach shall include advertising opportunities to bid for projects (as applicable), providing the bidding procedures, and providing California small businesses with information on available training and technical assistance for understanding and bidding on contracts.

A local agency that receives funding for these equipment project types shall keep statistics on small business and microbusiness participation in any contracts for this equipment installation. The local agency shall include these statistics in project data updates and reports to ARB.

3. Local agency solicitation of equipment projects

A local agency must solicit applications for equipment, evaluate, and fund eligible applications for all project options within the funding category, with project selection based on the competitive ranking process.

A local agency may ~~conduct include provisions for~~ more than one solicitation for each Program grant. If multiple solicitations are conducted, the subsequent solicitation shall not occur before the prior one is closed, unless the demand for funds is less than the amount available and the local agency obtains approval from ARB staff. ~~until equipment project applicants in the prior solicitation are notified of the results of their applications.~~

- Prior to opening a solicitation period, the local agency must submit the proposed equipment application form(s), program announcement(s), and information packet(s) to ARB staff for review and approval. ARB staff shall have a maximum of 8 business days to identify any necessary revisions, or the solicitation package shall be considered approved.

The documentation on the solicitation process shall include, but is not limited to, the following:

- Start and end dates for the equipment project application period.
- A list of materials in the information packet (see below).
- A solicitation schedule with milestones.

As part of the program announcement, ~~t~~The local agency shall make an information packet available to equipment owners who may be interested in applying for funding. This packet shall include the equipment project application, plus materials that describe all of the following:

- Application submittal information (how, where, by when, to whom).
- The Program and purpose for the solicitation.
- The equipment eligible for Program funding, including equipment project requirements and conditions (e.g., equipment inspections and any associated requirement for the equipment owner to bring equipment to a designated location, 100% California operation, scrappage of old equipment, legally binding contract and contract terms, etc.).
- Information on what owners must do to maintain eligibility throughout the funding process.
- The application forms (all required information specified in the appropriate Guidelines Appendix).
- Limits on available funding per piece of equipment.
- Equipment application disclosure language, and a clear statement that new equipment funded by this Program can only be purchased or ordered once the existing equipment has been pre-inspected and the contract is signed between the equipment owner and local agency. Locomotives may be pre-ordered prior to the execution of a contract.
- The equipment project ~~review~~ evaluation and competitive ranking process ~~for equipment projects.~~ The local agency must inform equipment owners that they may request a reduced funding amount to improve the cost-effectiveness and competitiveness.
- The payment process, including invoice payments and direct payments to vendors (as applicable).
- Remedies for contract non-performance.
- The reporting requirements.
- The ongoing equipment evaluation and auditing process.

4. Requirements for equipment projects where the local agency is also the equipment owner

For certain types of equipment projects, the local agency administering the grant from ARB may also be the owner of the equipment that is competing for funding to upgrade. For example, a port may be acting as a local agency under this Program and seeking funding as the equipment owner to install a grid-based shore power project. Any local agencies awarded grants from ARB that also want to be the equipment owner recipient of the funding shall comply with the additional requirements listed below, and any supplemental requirements identified by ARB staff, to reduce the inherent conflict of interest:

- Prior to opening a solicitation period, the local agency must submit to ARB staff (for review and approval) the proposed equipment application form(s), the solicitation/program announcement(s) and information packet(s) for applicants.
- Solicitation must require that the applications be sent in a sealed envelope.
- Sealed applications must be opened with ARB staff and the local agency present.
- Ranked list must be developed and approved in conjunction with ARB staff.

- For any equipment projects selected for funding where the local agency is also the equipment owner, the local agency must sign a contract with ARB to receive authorization to use those funds (this contract is in addition to the grant agreement that covers the local agency's grant administration responsibilities).

5. ~~4.~~ Review-Evaluation and Database entry of equipment project applications

The local agency shall review equipment project applications for eligibility and content, including whether an application is submitted in good faith, credible, ~~or~~ and in compliance with these Guidelines.

a) Review of equipment project applications

At a minimum, the local agency review of equipment project applications shall include:

- ~~Assignment of a unique equipment project number for tracking purposes as specified by ARB staff.~~
- Verification ~~of that~~ the equipment and its owner's are eligible to participate in the Program.
- Verification that the proposed equipment project is consistent with these Guidelines.
- Determination that all data and information necessary to calculate benefits and costs consistent with approved ARB methods are included.

b) Database entry of equipment project applications

After the initial review of the equipment project applications, the local agency shall enter eligible equipment project applications into the Goods Movement Online Database. The Database shall aid the local agency and ARB in reviewing, ranking, and tracking equipment projects.

6. ~~5.~~ Match funding for equipment projects

a) Carl Moyer program

Local air districts cannot combine funding from this Program and direct funding from the Carl Moyer program on the same equipment project (i.e., funds directly authorized under H&S §44091.1(a) and Public Resources Code §42889).

In response to air district requests, ARB staff have evaluated whether some "pass-through" vehicle registration fees that can be used in the Carl Moyer program may also be used for match funding under this Program. Under AB 923 (Chapter 707, Statutes of 2004), the \$2 surcharge on the vehicle registration fee can be used for match funding of Proposition 1B projects, consistent with state law. ~~involving the accelerated retirement, repowering, or retrofitting of trucks. Conversely, the \$2~~

~~surcharge cannot be used under this Program for match funding on non-motor vehicle sources, such as locomotives, harbor craft, cargo ships, and off-road cargo equipment.~~

Program funds and the \$2 surcharge may be combined on the same equipment project if all of the following conditions are met: ~~(a) the equipment project option(s) to be funded includes only trucks,~~ (b) the equipment project meets both bond Program eligibility requirements and Carl Moyer program funding criteria, ~~(c)~~ the equipment project does not exceed the Carl Moyer program cost-effectiveness limit, with the project cost including both Program and AB 923 funds, and ~~(d)~~ the \$2 surcharge funds are not counted as part of an air district's Carl Moyer program match requirement.

For the purpose of competitively ranking local agency and equipment projects under this Program, the calculation of reductions per State dollar invested must treat both bond Program monies and the \$2 surcharge monies as applicable State funds since the surcharge monies would otherwise be used in the Carl Moyer program.

b) Motor vehicle registration fees (AB 2766)

Motor vehicle registration fees (Chapter 1705, Statutes of 1990) (AB 2766), provides for the collection of an additional \$4 in motor vehicle registration fees to fund various air pollution efforts. For the purpose of this Program, AB 2766 funds can be used for match funding of Program projects and are not considered State funds.

c) Match funding from greenhouse gas reduction incentives, including AB 118

SB 88 directs ARB to consider projects that cut greenhouse gas emissions to support the State's greenhouse gas emission reduction goals. To encourage greater State funding for projects with significant greenhouse gas reductions, local agencies and equipment owners can supplement Program funds with monies from other State sources intended to reduce greenhouse gases, including (but not limited to) the AB 118 Alternative and Renewable Fuel and Vehicle Technology Program administered by the California Energy Commission. Provided that toxic and criteria pollutant emission reductions are only credited to the Proposition 1B Program (not the other State funding source), such monies shall be excluded from the total applicable State funds used to determine the cost-effectiveness of a proposed project under this Program. Since reductions in greenhouse gases are not quantified as part of the benefit side of the cost-effectiveness calculation, State incentives to cut greenhouse gases can similarly be excluded from the cost side of this calculation.

7. ~~6.~~ Competitive ranking and selection of equipment projects

Local agencies shall enter equipment project application information into the Goods Movement Online Database to create ~~use a quantitative approach to develop a~~ competitively ranked list of eligible equipment projects. This process will be applied to competing equipment projects under each solicitation and grant agreement. ~~Should the~~

Database not be available, the local agency shall create a competitively ranked list on an Excel spreadsheet using a template provided by ARB staff.

The following procedures for local agencies to rank and select equipment projects are based on the quantitative process ARB will use to competitively rank and select local agency projects. Chapter II.E.6 provides additional explanation of the elements of this process and Figure 1 in that section illustrates how the competitive process works.

The competitive ranking shall be quantitative based on multiple factors – emission reductions and a measure of cost-effectiveness that considers match funding. The calculation of emission reductions uses the Carl Moyer program protocol of weighting combustion PM emissions (essentially diesel PM) by a factor of 20 relative to other pollutants to account for the greater health impacts of PM per ton of emissions. This protocol helps target Program funding to the projects that will achieve the greatest reduction in health risk.

The local agency shall publish the ARB-approved list of competitively ranked projects on the agency website and provide a link to ARB's Program website.

a) *Emission reduction score*

For each equipment project within a source-funding category, the local agency shall use the Goods Movement Online Database, or alternate means provided by ARB, to calculate ~~review the equipment owner's estimate of the total pollutant-weighted emission reductions in California, over the project life, based on the Project Benefits Calculator.~~

Emission reductions = Reduction in NOx + (combustion PM x 20) emissions in California over the project life in pounds

The local agency shall list all equipment projects within the same source-funding category and eligible under the same local agency project grant agreement, in descending order of emission reductions, with the greatest emission reductions on top and the lowest emission reductions on the bottom. The agency shall number or score each project starting at the bottom with a score of 1 and continuing consecutively to the top project. For example, if there are 8 project proposals, the one with the greatest emission reductions would receive a score of 8.

Emission Reduction Score = number from above evaluation

b) *Cost-effectiveness ~~and match~~ score*

For each equipment project within a source-funding category, the local agency staff shall use the Database, or alternate means provided by ARB, to calculate ~~review the equipment owner's estimate of the total pollutant-weighted emission reductions in pounds (as determined above), divided by the total applicable State funding proposed~~

for the project. Total applicable State funding includes requested Program funds specific to that equipment project, plus any other State dollars, as applicable – see discussion under Chapter IV.A.6. Match Funding. ~~on treatment of the \$2 vehicle registration fee surcharge under AB 923 as State dollars.~~

Cost-effectiveness and match = weighted emission reductions (lbs)/total State \$

The local agency shall list all equipment projects within the same source-funding category and eligible under the same local agency project grant agreement, in descending order of emission reductions per State dollar, with the highest number on top and the lowest number on the bottom. The local agency shall number or score each project starting at the bottom with a score of 1 and continuing consecutively to the top project. For example, with 8 equipment project proposals, the one with the greatest emission reductions per State dollar would receive a score of 8.

Cost-Effectiveness and Match Score = number in above evaluation

c) *Competitive ranking*

The local agency shall add the Emission Reduction Score to the Cost-Effectiveness and Match Score to determine the final points for each equipment project. The agency shall rank equipment projects within the source-funding category covered by the grant agreement from highest points to lowest points to create the competitive ranking list.

Note: eligible projects to upgrade switcher locomotives shall automatically be ranked above other types of competing locomotive equipment project options, consistent with the statutory direction to give funding priority to switchers.

d) Ranked list approval process

The local agency must submit ranked lists to ARB staff for approval prior to selecting projects for funding or requesting project funds from ARB. The process for generating an approval of a ranked list is described below and may be revised by ARB staff as needed and posted on the Program website.

- A local agency enters equipment project application information into the Database to create a competitively ranked list of eligible equipment projects. The local agency may also submit the information via an Excel spreadsheet which will be imported into the Database.
- The local agency must submit to ARB for approval their internal verification process.
- After the local agency has completed its internal review of the submitted data and the preliminary ranked list, the agency notifies ARB staff (by e-mail) that the ranked list is ready for approval. ARB staff reviews the ranked list and if needed, requests additional clarification, corrections, and/or documentation to ensure information in the Database is credible. ARB staff identifies any issues with the ranked list via email to the local agency.

- ARB staff notifies the local agency when the ranked list has been approved and available to be posted on the local agency's website.

d) ~~Application of available funding~~

e) Selection of projects for funding

The local agency shall use the ARB approved ranked list to select projects for funding. The local agency shall apply the available grant dollars (minus allowed administration funding) to the list of competitively ranked equipment projects within the source funding category. The local agency shall award grant funds to the top project and continue down the competitive ranking list until the grant funds are exhausted. Projects with an increase in emissions or negative cost effectiveness are not eligible for funding. ARB staff may identify a minimum cost-effectiveness to ensure that Program monies achieve the intended benefits. Any minimum cost effectiveness requirement not currently included in the Guidelines will be posted on the Program website.

e) ~~Equipment project backup list~~

The local agency shall maintain an equipment project backup list comprised of the projects on the competitive ranking list that did not receive funding. Equipment projects on this backup list are available for Program funding, in the order established on the competitive ranking list, if additional funds become available. Funds may become available when an equipment project selected for funding does not pass the pre-inspection, when an equipment owner voluntarily withdraws from the Program prior to execution of an equipment project contract, or for other reasons.

As funding becomes available, local agency staff shall make a reasonable effort to contact the equipment owner with the top unfunded equipment project on the competitive ranking list to (a) determine if the owner is still interested in participating in the Program, and (b) obtain an updated signed equipment project application disclosure statement to verify that the equipment owner has not applied for Program funds elsewhere. If the local agency is unable to proceed with the top equipment project after a reasonable effort, the local agency may proceed with the next equipment project on the competitively ranked backup list.

8. ~~7.~~ Compliance check

The local agency shall conduct a compliance check on the old vehicle and the equipment owner for all truck replacement, repower, or retrofit projects proposed for funding prior to executing an equipment project contract to ensure both the equipment and owner do not have any outstanding air pollution-related equipment violations. To ~~complete~~ submit the compliance check, the local agency shall enter ~~email~~ the following required information for each truck into the Goods Movement Online Database designated ARB Program staff:

- Registered equipment owner name.
- ~~Name of the equipment operator (if different).~~
- Vehicle identification number (VIN).
- Vehicle license plate number.

The local agency may also provide the following optional information in the Database:

- California Highway Patrol number (CA Number).
- U.S. Department of Transportation number.
- Interstate Commerce Commission number.

Due to the large number of vehicles that could require compliance checks, local agencies are encouraged to submit these data as soon as possible after receipt of the application.

ARB Program staff shall work with Enforcement Division staff to obtain the information and display email the results of the compliance check in the Database. ARB staff will endeavor to provide the results to the local agency within ten working-20 business days. The turnaround time may increase depending upon work volume and available ARB staff resources.

For FY2007-08 Program funds, if the compliance check indicates there is an outstanding violation prior to the application date, the equipment project application shall be disqualified unless the violation is for an engine label. The local agency shall inform the ~~engine equipment~~ owner in writing that the equipment project application has been disqualified for funding, and that the owner must correct the violation and pay any applicable fines.

For other Program funds, if the compliance check indicates there is an outstanding violation on any vehicle within an owner's fleet, the local agency may offer all affected equipment owners the opportunity to retain grant eligibility by correcting the violation and paying any fines prior to execution of the contract(s) between the local agency and equipment owner. If the local agency has notified the equipment owner of violation(s), and the equipment owner does not correct the violations and pay applicable fines in a timely manner, the local agency shall inform the equipment owner in writing that the equipment project application has been disqualified for funding.

9. Notifications to equipment owners

The local agency shall notify equipment project applicants of the status of their applications. Notifications shall be in writing, and occur within a reasonable time after the end of the solicitation period.

At a minimum, written notifications shall include the following:

- A clear statement whether or not the equipment project is eligible for Program funds.
- If the equipment project is eligible, the notification shall include a clear statement indicating whether the equipment project was selected for funding or placed on the backup list.
- If the equipment project is selected for funding, the notification shall include:
 - Total Program funding amount for equipment project.
 - Information and deadlines for scheduling a pre-inspection.
 - Language indicating Program funding is contingent on passing the equipment pre-inspection.
 - Information regarding what the equipment owner must do to maintain eligibility.
 - Information and deadlines for executing equipment project contracts, applying for direct payments to vendors (if applicable), post-inspection requirements, deadlines to complete the project, and the process for obtaining Program funds through invoice payments.
- If the equipment project is placed on the backup list, the notification shall include information pertaining to the potential for future funding of the equipment project.
- If the equipment project is not being considered for Program funding, the notification shall include information about the equipment owner's ability to apply for other incentive funding opportunities, and the ability to participate in Program funding in future years.

10. 8.Equipment project pre-inspections

- The local agency shall conduct and document equipment project pre-inspections after the local agency has identified equipment projects for funding under this Program. Pre-inspections shall at the local agency's option may occur prior to or after the execution of an equipment project contract and must be conducted by local agency equipment inspectors or their designated contractors which may include truck dealerships. The local agency shall initiate and maintain a contract or MOU with any truck dealership pre-inspecting equipment to ensure Program pre-inspection requirements are met. A local agency shall not restrict equipment projects to equipment sold by a truck dealer or retrofit vender with a contractor MOU to do pre-inspections.

Pre-inspection information and results shall be entered into the Goods Movement Online Database.

The pre-inspection for each source category shall, at a minimum, include:

- Collection of the owner's name, address, and telephone number.
- Identification of the location of the engine (business, ship berth, or truck facility).
- Collection of the serial number of the baseline engine and any additional information necessary to assist in the verification of the baseline engine application information. For engines without a visible and legible serial number, the local agency inspector

must stamp or tag the engine block with the Program equipment project number. ~~The inspector must be present to personally verify engine removal or must be provided documentation and photographic evidence of the equipment before and after the engine destruction for these engines.~~

- Collection of baseline information on ship activity at the berth, or truck activity at the truck stop or distribution center.
- Photographic, digital documentation for the project file of each piece of equipment being pre-inspected. The photographic documentation shall include:
 - The serial number of the engine (if legible) or Program equipment project number.
 - License plates or other distinguishing identification that is visible on the equipment.
 - A photograph that captures a full view of the equipment being inspected (e.g., the entire truck, vessel, locomotive, etc.).
- Description of the local agency's method for cataloging, referencing, storing, and easily retrieving project-specific photos.
- Verification by meter reading of the equipment usage (hours or miles), and that the usage reported in the equipment project application is reasonable given the usage meter reading.
- Verification that the engine is operational (with a start-up) and is working as described in the equipment project application (document function and use).
- Verification that engines subject to the software upgrades for diesel truck retrofit projects (i.e., chip reflash) have completed the upgrade.

11. ~~10~~-Equipment project contracts

The local agency shall obligate funds for each equipment project as described in these Guidelines. These funding commitments shall become legally enforceable only through executed contracts between the local agency and equipment owner.

For FY2007-08 funds, all equipment project contracts shall be executed within 24 18 months of the execution of the grant agreement between ARB and the local agency, extended to account for any time that the local agency was prohibited by ARB from implementing the grant.

For FY2008-09 and later funds, equipment project contracts shall be executed within one year following execution of the grant agreement between ARB and the local agency or within one year of ARB notifying the local agency that the project is authorized to start with available bond funds, whichever comes later. However, all equipment project contracts must be executed no later than 24 months after the execution of the grant agreement.

Local agency staff shall prepare and submit for review and signature two ~~signed~~ copies of the contract for Program funding to be signed by the equipment owner. After an equipment owner and the local agency signs two copies of the contract agreement, the local agency shall retain one fully executed copy for its files, and return one fully

executed copy to the equipment owner. Following execution of an equipment project contract, local agency staff shall enter the equipment project contract information into the Goods Movement Online Database.

At a minimum, an equipment project contract shall contain the following provisions:

a) *Standard contract provisions*

- Contract number—unique tracking number provided by local agency for each contract.
- Effective date.
- Term of contract (project completion time plus equipment project life).
- Equipment owner contact information.
- Indemnification—equipment owner agrees to indemnify and hold harmless ARB and the local agency for any liability arising out of the performance by the equipment owner.
- Severability—remaining provisions of a contract continue in effect even if a court holds a specific provision invalid.
- Force majeure—ARB, local agency, and equipment owner are not liable for delay or failure in performance resulting from acts beyond their control.
- Contract amendments—amendments shall only occur by mutual agreement in writing and signed by all parties.

b) *General Program provisions*

- Application—incorporate by reference the original equipment owner application.
- Reporting requirements—equipment owner is responsible for submitting annual reports to the local agency, unless otherwise noted in these Guidelines. The local agency contract with equipment owner must specify reporting requirements listed in the applicable Appendix.
- Ongoing evaluations and audits—equipment owner agrees to allow ongoing evaluations and audits of equipment and documentation by the local agency, ARB, or their designated representative(s).
- Records access requirements—equipment owner agrees to allow the local agency, ARB, or their designated representative(s) access to evaluate or audit Program records.
- Recordkeeping requirements—equipment owner agrees to retain all records pertaining to the Program e.g., invoices, contracts, and correspondence, for at least two years after equipment project life ends or three years after final payment, whichever is later.
- Enforcement—provisions authorizing the local agency to inspect equipment projects to enforce contract terms.
- Equipment project contract non-performance provisions (see Chapter VI.I) includes, but is not limited to:

- Failure to meet the terms and conditions of an executed equipment project contract.
- Equipment/engine is non-operational, malfunctioning, or damaged.
- Failure to operate or maintain equipment in accordance with manufacturer's recommendations.
- Intentional destruction of equipment.
- Failure to meet established deadlines for equipment project completion.
- Failure to allow for an electronic monitoring device, if required, or tampering with an installed device or data.
- Misuse of direct payments to vendors provisions.
- Insufficient, incomplete, or faulty equipment project documentation.
- Failure to provide required documentation or reports in a timely manner.
- Remedies for non-performance include, but are not limited to:
 - Recovery of all or a portion of Program funds.
 - Other fiscal penalties on equipment owners based on the severity of the non-performance.
 - Cancellation of the contract.
 - A ban on the equipment owner's ability to participate in future State incentive programs.
 - Prohibiting a specific piece of equipment from participating in another State incentive program.
- Contract transfer and buy-out provisions (see Chapter VI.F-H).—~~provisions allowing for the transfer of the remaining contract terms to a new equipment owner.~~
- Direct payments to dealers or manufacturers—allowance for local agency payments to go directly to vehicle or equipment dealers or manufacturers in the case of ~~approved~~ direct payments to vendors. Checks may be made payable to both parties: equipment owner and dealer or manufacturer, if applicable.
- Independent contractor—equipment owner is an independent contractor and none of equipment owner's agents shall be construed as agents or employees of ARB or the local agency.
- Equipment maintenance—equipment owner is responsible for maintaining Program-funded engines or equipment in good operating condition and according to manufacturer's recommendations, and as described in these Guidelines.
- Time is of the essence—time is of the essence in the performance of all contracts.
- Program acknowledgment—equipment owner agrees to acknowledge the Program as a funding source in any related media events or other publicity material.

c) Source category-specific elements

- Equipment project description.
- Total cost for the equipment project.
- Project cost breakdown (including technology/equipment purchase, labor for retrofit/installation, etc.).
- Eligible costs—costs directly tied to the purchase of ARB-approved equipment projects.
- Total Program funds for the project.

- Non-State match funds and source(s) of those funds—includes cash, in-kind, or other sources.
- Ineligible costs—costs not directly tied to the purchase of ARB-approved equipment projects, if applicable.
- Project performance benchmarks—the expected activity (e.g., estimated annual mileage or engine hours from application) and emission reductions (estimated NOx and PM reductions over the life of the project from the posted ranked list) from the new equipment.
- Project inspections—equipment owner agrees to pre-inspection by the local agency of old equipment prior to or after the execution of a contract, and post-inspection of the new/upgraded equipment prior to final payment. If the contract is signed before pre-inspection, the equipment owner cannot order the new equipment until the existing equipment has passed pre-inspection.
- Project schedule—timeframe required to complete equipment project including major milestones.
- Schedule to expend funds—estimated schedule for local agency to expend Program funds to the equipment owner.
- Request for payment—steps required for equipment owners to request expenditure of Program funds, including direct payments to vendors (if applicable).
- Equipment warranty/insurance—equipment owner is responsible for securing warranty and maintaining insurance on the new equipment sufficient to repay the State’s investment in case of major damage.
- Electronic monitoring devices—provisions requiring equipment owners to agree to the installation and use of an electronic monitoring device at any time during the contract term for contracts that allow 90 percent operation in California. For trucks, the equipment owner is responsible for purchasing, installing, and maintaining a device that can produce the electronic reports required by ARB, as documented on the Program website.

12. ~~41.~~Tax reporting

The local agency shall comply with all State and federal tax reporting requirements associated with the payment of Program funds to equipment owners. This may include requiring the submittal of tax information using federal tax Form W-9, and issuing a federal Form 1099 to the equipment owner receiving grant funds. The local agency shall also report the applicable tax information to the California Franchise Tax Board and federal Internal Revenue Service.

13. ~~42.~~Provisions for lease-to-own programs

The local agency projects may ~~propose to~~ use a lease-to-own program(s) ~~as part of the for truck replacement option for both trucks source categories.~~ A description of the lease-to-own program shall be included in the local agency project application. ARB staff may revise the specific requirements of this section 13 as needed and post on the Program website.

a) General requirements

Lease-to-own programs shall comply with the following minimum requirements:

- The equipment project application must be signed and submitted by the owner of the ~~new old~~ old truck (applicant), and must include information on the old truck to be replaced, the new replacement truck, and the proposed lessee.
- The applicant must be the legal owner of the old truck at the time of application and must participate in the lease-to-own program as either the lessor or lessee.
- Equipment project applications may be amended to change the applicant's participation in a lease-to-own program, or change the lessor if approved by the local agency. All amendments must be completed prior to contract execution.
- Grant funds shall only be used to offset the capital cost of the truck and shall reduce the principal owed by the lessee to purchase the truck. The ~~owner-lessor~~ shall not impose a charge on the lessee for any portion of the Program funds as a component of the lease payments. The ~~owner-lessor~~ may set a lease payment schedule that recoups his or her out-of-pocket investment to purchase the new truck and a reasonable rate of interest over the term of the lease. Equipment project funds shall not be applied toward administration costs.
- As a remedy for the non-performance of a lessee under the equipment project contract, the ~~truck owner-lessor~~, with local agency approval, may transfer the truck to a new lessee, so long as the new lessee agrees to sign an equipment project contract under the same provisions, for the remaining contract term.
- A truck project participating in a lease-to-own program shall be subject to the same Program requirements as any other truck competing for funding under that local agency project. ~~If the funded local agency project includes multiple equipment project options or multiple implementation approaches, a local agency shall not preferentially fund trucks in the lease-to-own program—they must compete against all other truck projects within that source funding category and trade corridor.~~
- ~~Local agencies interested in proposing Program funding for lease-to-own programs shall contact ARB staff for a list of financial data that must be collected as part of the equipment project application.~~
- Prior to executing contracts for the lease-to-own program(s), the local agency must submit program information and sample contracts to ARB staff for review and approval. Deliverables for approval include:
 - Sample equipment project contract(s) the local agency will execute with the lessor, lessee, and/or administrative entities participating in the Program.
 - Sample lease rider (see (c) below) that will be executed by lessor and lessee.
- Other information specified by ARB staff and posted on the Program website.

b) Legal structure provisions

- Equipment project contracts shall hold both the ~~equipment owner~~ lessor and lessee legally liable (i.e., jointly and severally) for complying with the contract and Program requirements. There are multiple ways for the local agency to implement a lease-to-

own program that ensures that the lessor and lessee are jointly and severally liable. Examples are shown below:

- A local agency or an approved administrator executes a joint contract with the lessor and each lessee which includes all Program requirements. The equipment project contract may allow certain provisions to apply solely to the ~~equipment owner lessor~~ (e.g., financial requirements) or lessee (e.g., operational requirements), so long as the local agency maintains the ability to enforce all remedies for non-performance under the contract(s), including the recovery of funds or repossession of the truck, if necessary.
 - A local agency or an approved administrator may also establish separate legally binding agreements with the ~~equipment owner lessor~~ and the ~~truck operator~~ (lessee). Or they may execute a contract with all Program requirements with a lessor and the lessor executes a lease agreement with each lessee. Program requirements can be distributed between the lessor and lessee. In this case, both agreements must specify the ability of the local agency and ~~equipment owner lessor~~ to enforce all remedies for any lessee's non-performance under an equipment project contract.
- For non-performance provisions, see Chapter VI.I.

c) Lease agreement provisions

- Lessor must disclose the following information in writing to the lessee prior to executing a lease agreement:
 - Cost of the vehicle (total cost lessor paid for the vehicle less the amount of the grant).
 - Amount due at lease signing with an itemization of the charges.
 - Interest rate, monthly payment, and number of payments.
 - A schedule of potential late fees, penalties, mileage charges, or other items that can be charged to the lessee.
 - Residual or buyout amount the lessee will be required to pay at the end of the lease term in order to take ownership of the truck.
 - Total cost to lessee to take ownership at the end of the lease (total of fees, charges, monthly payments, and residual or buyout amount).
- If the local agency does not execute a contract with the lessee, the local agency shall require the lessor to incorporate the following requirements in a lease rider.
 - Statement that if any provision of the lease agreement conflicts with the terms of the lease rider, the provisions of the lease rider shall govern.
 - Contract terms that provide for the lessee to assume ownership of the Program-funded truck at the end of the lease period.
 - Other operational requirements of the Program, as identified by ARB staff and posted on the Program website.

14. ~~13.~~Equipment project scrap requirements

The local agency shall ensure that old equipment is scrapped (permanently removed from service) and associated materials disposed of in an environmentally acceptable manner, in accordance with these Guidelines and any applicable federal, State or local laws, regulations or requirements.

Scrapping operations and material disposal applies to the following:

- Truck engine repowers and truck replacement projects.
- Harbor craft engine repowers and vessel replacement projects.
- Locomotive engine repowers and new replacement projects.
- Cargo equipment repower and replacement projects.

Local agencies shall be responsible for implementing procedures for collecting all necessary information prior to scrap/disposal activities (e.g., during the pre-inspection). All information collected and recorded must be readily accessible to verify that scrap and disposal procedures were conducted for the appropriate engine, vehicle, vessel, or locomotive. Documentation shall be available to ARB or its designee to support ongoing Program evaluations or audits as necessary.

The following procedures must be implemented for all repower and replacement projects:

- Prior to destruction, old equipment must be in operable working condition and legal for use in California, as documented in the equipment pre-inspection provisions of these Guidelines.
- The old equipment engine block (for repower projects) or vehicle/vessel/locomotive, including the frame and engine (for replacement projects) shall be physically destroyed in such a manner to eliminate the possibility of future operation. Engine blocks shall be punctured, and the vehicle, vessel or locomotive frame structure shall be dismantled, cut through, and/or demolished to render the equipment useless and to prevent repeated use.
- Licensed dismantlers are required to enter into an agreement with the local agency to qualify for participation. Dismantlers are required to be licensed by the Department of Motor Vehicles (DMV) (for auto-dismantlers), and also have a valid California Environmental Protection Agency (Cal/EPA) Hazardous Materials Generators Permit. In addition, the dismantler must ensure compliance with any federal, State, and local material disposal requirements, regulations, permits or requirements.
- Funding is not available for any salvage or material disposal costs, including hazardous waste abatement fees, labor costs, fines, permits, or other charges resulting from destruction or disposal.
- All equipment to be scrapped must have a complete, visible, and legible serial number or a stamp of the Program equipment project number applied at the time of pre-inspection by the local agency or its designee.

- The local agency or its designee must obtain digital documentation, see below, to ensure the engine identified in the equipment contract and the pre-inspection is the one that is to be scrapped. This documentation includes specific pictures to be taken before the engine is destroyed, as well as photos after the engine is destroyed.

The destruction of any engine without a verifiable serial number or Program equipment project number stamped on the equipment at the time of the equipment pre-inspection does not fulfill the scrappage requirement under this Program.

The local agency must ensure the following additional requirements for each piece of equipment are undertaken as per the scrappage tables in Appendices A, B, D, and E.:

Table 3.1 — Equipment Project Scrap Requirements *(table moved to Appendices A, B, D, and E, as applicable)*

15. Reuse of trucks/limited alternative to scrappage for trucks

ARB may require or allow the local agency to make existing trucks being replaced under this Program available for limited reuse under specific programs approved by ARB. The ARB Executive Officer may approve truck reuse proposals that meet all of these criteria:

- Deliver an equivalent or greater air quality benefit in California (compared to scrappage of the middle-aged truck).
- Require any truck reused in California to be retrofit with a PM filter to ensure a localized health benefit.
- Require any truck reused outside of California to be prevented from re-entering the State.
- Are consistent with the principles and goals of this Program.
- Do not increase Program cost and do not substantially increase the Program administration workload.

ARB staff shall notify local agencies implementing truck projects of any new requirements to implement this provision, including reporting on the number of trucks made available for reuse as part of the semi-annual report.

16. ~~14.~~Equipment project post-inspections

The local agency shall conduct and document equipment project post-inspections on all Program-funded equipment projects. Post-inspection information and results shall be entered into the Goods Movement Online Database.

The post-inspection shall occur before final grant funding payments are made by the local agency to the equipment owner, and after the local agency has a valid invoice provided by the equipment owner.

~~If the equipment project was approved for a direct payment to a vendor, the post-inspection shall occur within 30 days of the equipment owner receiving the fully operational equipment (unless otherwise stated in the specific post-inspection requirements table).~~

Post-inspections for all equipment projects shall include, but are not limited to, the following requirements:

- Collection of the equipment owner's name, mailing address, and telephone number.
- Verification of equipment application information with new equipment to ensure the new equipment is consistent with the equipment described in the equipment application.
- Documentation of new equipment identifiers and specifications (e.g., VIN number for new trucks, serial numbers for new engines, etc.)
- Digital photographic documentation of the equipment that is being post-inspected for the project file. This documentation shall include:
 - A photograph of the serial number of the engine;
 - A photograph of the license plate or other distinguishing identification that is visible on the equipment; ~~and~~
 - A photograph that captures the full piece of equipment (i.e., the entire truck, vessel, locomotive, etc.) that is being inspected.
- Methods for cataloging, referencing, storing, and easily retrieving specific equipment project documentation and photographs.
- Visual witness and verification that the vehicle/engine/equipment is operational as stated in the contract. The inspector must visually witness and verify all engine start up and mobile equipment projects operating properly.
- Verification of the destruction of the old/replaced equipment (engine, vehicle, vessel, or locomotive), where applicable. The inspector must be present to personally verify engine removal or must be provided documentation and photographic evidence of the equipment before and after the engine destruction for these engines.

In addition to the general post-inspection requirements above, ~~Table 3.2~~ Appendices A- E provides additional post-inspection requirements for each source category and equipment project option as applicable.

~~**Table 3.2**~~ **Post-Inspection Requirements** *(table moved to Appendices A-E, as applicable)*

17. 15-Local agency requests to ARB for grant funds

The local agency may request grant funds from ARB by submitting a valid Grant Expenditure Request signed by an authorized local agency representative acting under a fully executed grant agreement. ARB's expenditure requirements and provisions are detailed in Chapter II. ~~EF.2.~~

18. ~~16.~~ Local agency non-performance provisions

The local agency shall be held responsible for the implementation of the local agency project. Local agency non-performance provisions and requirements are included in Chapter II. ~~EF.~~7 of these Guidelines.

B. ~~E.~~ Obligations, Expenditures, and Earned Interest

H&S §39626.5(b) requires the local agency to award the funds via contracts with equipment owners within 2 years of ARB allocating funds to the agency pursuant to a grant agreement. The statute also requires the local agency to liquidate funds within 4 years of the date of the award of the contract between the agency and the equipment owner. The funds revert to the California Ports Infrastructure, Security, and Air Quality Improvement Account if the statutory time frames are not met. ARB staff may provide direction to local agencies regarding how this statute shall be applied in situations where the local agencies are expressly prohibited from implementing their grant agreements for a period of time due to suspension of the State's bond programs.

1. Local agency obligation of funds to equipment owners

For FY2007-08 funds only, local agencies shall obligate Program funds via executed equipment project contracts no later than 24 48-months from the date of the executed grant agreement between ARB and the local agency, excluding the period of time that the local agency was prohibited from implementing the grant.

For FY2008-09 and later funds ~~After FY2007-08~~, local agencies shall obligate Program funds no later than 18 months one year from the date of the executed grant agreement between ARB and the local agency, or no later than 18 months from the date ARB issues a Start Letter to the local agency, whichever comes later.

Note: ~~Once a local agency has an executed equipment project contract, Program funds must be spent according to the terms of the contract, or they revert back to the California Ports Infrastructure, Security, and Air Quality Improvement Account. Local agencies are prohibited by statute from re-directing Program funds from failed contracts to another eligible equipment project.~~

2. Local agency expenditures on equipment projects

a) Expenditure deadlines for equipment projects

Local agencies shall comply with the following deadlines to liquidate Program funds. These expenditure deadlines represent the maximum time allowed from the equipment project contract execution date to the expenditure of Program funds to complete and close out an equipment project:

- ~~1 year to verify project completion/close out payment for cargo handling equipment projects.~~
- 18 months to verify project completion/close out payment for truck retrofit, repower, and replacement, and three-way transaction projects, and cargo handling equipment projects.
- 2 years to verify project completion/close out payment for locomotive projects, and non-grid shore power projects, and projects to install a locomotive or ship emissions capture and control system.
- 3 years to verify project completion, obtain at least one year of data on actual use, and close out payment for truck stop or distribution center electrification projects.
- 4 years to verify project completion/close out payment for harbor craft projects and grid-based shore power projects.

b) Equipment project purchase restrictions

Except in the case of locomotives, local agencies shall not reimburse equipment project applicants for orders or any payments on a new engine, piece of equipment, or vehicle that take place prior to local agency approval of the project through contract execution.

Dealers ordering engines, equipment, or vehicles prior to contract execution assume all financial risk, and are in no way assured grant funds.

An equipment owner may not receive engines, equipment, or vehicles, nor may work begin on a repower or retrofit project or a project to install electrical infrastructure, until the project contract is fully executed.

c) Invoice payments (reimbursements)

With the exception of approved direct payments to vendors as described in Chapter IV.A.11-III.E.2.d, local agencies shall only expend Program funds through invoice payments. Invoice payments provide Program funding to equipment owners on a reimbursement basis.

After receiving a satisfactory post-inspection from the local agencies on completed equipment projects, equipment owners shall complete and submit itemized invoices for currently operational new engines, vehicles, or pieces of equipment to the local agency for reimbursement. However, for truck replacement projects, the local agency may reimburse the equipment owner upon submission of a valid invoice once the following requirements are met:

- Equipment owner or dealer must deliver the old truck(s) to a licensed dismantler within 30 calendar days of receiving the new fully operational equipment.
- Local agency must verify with the dismantler that the used equipment has been delivered and is in custody of the dismantler.

An invoice shall be itemized to include enough detail to ensure that the local agency provides reimbursement only for eligible project costs, yet be clear and concise enough

to be understandable. The local agency shall review the itemized invoice and only pay for eligible expenses up to the funding caps established by these Guidelines and the grant agreement.

Equipment owners shall not request or receive payments for engines, vehicles, equipment, or electric infrastructure that are non-operational; taxes; consulting services; license; permit fees; registration; insurance; or any other costs not eligible for Program funds.

Charges for equipment and parts on engine repower projects are only eligible for funding if they are required to ensure the effective installation and functioning of the new engine and achieve the expected emissions performance, but are not part of typical vehicle or equipment maintenance or repair. Examples of ineligible repower costs include, but are not limited to: tires, axles, paint, brakes, and mufflers.

Most labor expenses are not eligible for payment with Program funds; the exceptions are: labor to install a diesel PM filter on a truck, labor to make necessary vessel modifications and install the new engine in a harbor craft, and labor to install the electrical infrastructure to supply a ship berth or truck pedestal. Whether reimbursable with Program funds or not, labor expenses shall be included in the itemized invoice with the detailed number of hours charged and the hourly wage.

Equipment owners may submit a single, itemized invoice for multiple, completed equipment projects under this Program.

Invoice payments may be made directly to the equipment or engine dealer or distributor only if such payment arrangements are specified in the equipment project contract.

The local agency shall maintain copies of all invoices and documentation of payment in the equipment project file.

d) Direct payment to vendor

Local agencies shall expend Program funds through invoice payments (described above) or according to the direct payment to vendor option described in this section. The direct payment to vendor option is only available to truck retrofit and replacement equipment projects, and harbor craft repower and replacement equipment projects.

Local agencies shall approve all direct payment to vendor requests as part of their ~~contract equipment project competitive ranking and selection process. Equipment owners are required to request direct payment funding in the equipment project application.~~ Direct payment terms shall be incorporated in the legally binding equipment project contract between the local agency and equipment owner. The equipment project contract shall include terms specifying arrangements for the local agency payments to go directly (or jointly) to the engine, truck, or retrofit dealer or manufacturer.

The local agency may issue a check made payable to two parties, the equipment owner and the dealer or manufacturer, once the following requirements are met:

- The local agency has entered into an agreement with a verified representative of the dealer or manufacturer.
- The verified representative of the dealer or manufacturer has physical custody of the old equipment and has agreed to ensure that the old equipment is delivered to a contracted dismantler within 30 calendar days of the issuance of the check.

3. Earned interest

The local agency shall track the amount of interest earned on Program funds held in local agency accounts beginning immediately after receipt of Program funds from ARB.

a) Calculation of earned interest

The local agency shall maintain accounting records (e.g., general ledger) that track interest earned and expenditures on Program funds.

- If the local agency maintains its Program funds in a non-segregated account, the local agency shall maintain accounting records that first separates Program funds from other funds administered by the local agency then further separates earned interest and the related expenditures.
- The calculation of interest shall be based on an average daily balance or some other reasonable and demonstrable method of reallocating the proceeds from the fund back into the Program.
- Earned interest shall be tracked such that it is separately identifiable from other Program funds.
- Each local agency's methodology for calculating the amount of interest earned on Program interest funds shall be consistent with how it calculates earned interest for its other fiscal programs.

b) Reporting requirement for earned interest

The local agency shall indicate the amount of interest earned and expended on all Program funds in the semi-annual report.

- Documentation of earned interest generation and expenditure shall be retained for a minimum of 35 years from the grant agreement date to comply with federal and state bond requirements. ~~the grant agreement term plus two years or date of the final equipment project invoice payment plus three years, whichever is longer.~~

c) Earned interest expenditure provisions

The local agency shall expend interest earned from Program funds on eligible equipment projects, as described in Chapter IV.C. Funding Recapture. ~~in the following priority:~~

- ~~The first priority for expenditure shall be to fund equipment project options within the same source category identified in the grant agreement.~~
- ~~If the local agency is unable to find or fund equipment project options within the source category, the earned interest may be applied to equipment project options within the funding category identified in the grant agreement. For example, a local agency with a grant agreement for the shore power source category may expend earned interest on rubber tired gantry cranes if another shore power project is not available or the amount of earned interest is not sufficient to complete a another shore power project.~~

If the local agency is authorized to use a portion of the grant for administration funds, the local agency may use a portion of the earned interest for administrative costs up to the maximum allowed by these Guidelines for that source category to implement additional projects.

If a local agency is unable to expend all or a portion of the earned interest as specified in Chapter IV.C., the remaining earned interest shall be returned to ARB for re-allocation.

C. Funding Recapture - Local Agency

1. Process for recapturing funds

A local agency shall obligate and expend Program funds in a timely manner. A local agency may choose to return unused funds to ARB for reallocation ahead of a reversion deadline if the local agency cannot spend the funds prior to the reversion deadline. The ARB Executive Officer or his or her designee has the authority to recapture funds for reallocation and expenditure prior to reversion deadlines, and may amend or modify an impacted grant agreement, or establish a new grant agreement, to implement this policy. The local agency shall agree to comply with the recapture process.

Recaptured funds may become available to a local agency in several ways including, but not limited to, the following:

- Allocated to a local agency by ARB.
- Funds obligated through contract with equipment owners that are returned or not spent prior to the statutory deadline.
- Earned interest.
- Funds paid to the local agency by equipment owners through voluntary buyout, involuntary buyout (equipment rendered inoperable), or penalties.

2. Expending recaptured funds

The local agency shall obligate and expend recaptured funds according to the following hierarchy:

- Eligible equipment projects on the ARB-approved ranked list for the funding category covered by the grant that generated the funds.
- Eligible equipment projects from a new solicitation for the funding category covered by the grant that generated the funds.
- Upon ARB staff approval, eligible equipment projects for another funding category covered by an existing grant agreement between the local agency and ARB.

The local agency shall return recaptured funds to ARB for re-allocation if it cannot expend them according to these priorities.

- With the exception of funds acquired through buyouts and penalties, the local agency shall track fund activity by year of appropriation. A local agency shall also track all fund activity by fiscal year.
- The local agency shall report semi-annually all Program funding activity using the Goods Movement Online Database.

D. ~~F.~~ Ongoing Local Agency Evaluation of Equipment Projects

Local agencies shall evaluate equipment projects on an ongoing basis. The ongoing evaluation process is designed to meet the accountability requirements of SB 88 and the Governor's Executive Order S-02-07.

Local agency evaluation efforts shall include, but are not limited to: ongoing desk reviews of reports and equipment project updates provided by equipment owners, review of electronic monitoring unit data (as applicable), site inspections, equipment inspections, review of equipment maintenance and activity logs, and other measures deemed appropriate by ARB or the local agency.

Equipment owners shall permit the local agency, ARB, the Department of Finance, the Bureau of State Audits, or any authorized designee, access, during normal business hours, to conduct ongoing evaluations for the purpose of monitoring the Program.

E. ~~G.~~ Local Agency Reporting Requirements

Local agencies shall obtain, verify, and submit to ARB all local agency and equipment project reporting information as outlined in these Guidelines.

1. Quarterly data updates

Local agencies shall submit to ARB quarterly data updates on all local agency projects and the equipment projects associated with each. The local agency shall submit these updates using the Goods Movement Online Database when available.

Local agency quarterly data updates shall begin, at a minimum, one quarter after the beginning of the first solicitation period execution of the grant agreement, and continue until the local agency provides ARB with the local agency project completion report (see below). These quarterly data updates shall be cumulative, reflecting the most current local agency project information. ARB staff may temporarily eliminate this requirement for grants that are suspended, or have recently been suspended, due to lack of bond funding.

Quarterly data updates to ARB shall include the following information, if applicable:

- Start and end dates of most recent equipment project solicitation.
- ~~A ranked equipment project list identifying~~ Updates to each equipment project application received by the local agency through the solicitation process, including, and ~~containing the following information for each equipment project:~~
 - Equipment project application information.
 - Equipment pre-inspection information.
 - ~~Weighted emission reductions.~~
 - ~~Total project cost.~~
 - Funding status (selected for funding, funded from backup list, not funded).
 - ~~Funding amount (amount of Program funds, amount of non-Program funds).~~
 - Equipment project contract information status (~~executed/not executed~~).
 - ~~Equipment pre-inspection status (scheduled/not-completed/completed).~~
 - Equipment post-inspection information status (~~scheduled/not-completed/completed~~).
 - Equipment project status (active/withdrawn/ineligible/backup list).
- ~~Total emission benefits for the local agency project.~~
- Total Program funds obligated.
- Total Program funds expended/remaining (breakdown by project funds and administration funds).
- ~~Total non-Program funds expended per fiscal year of funding.~~

2. Semi-annual report

Local agencies shall submit to ARB semi-annual reports through the Goods Movement Online Database or another method established by ARB.

Local agency semi-annual reports shall begin the year following initial ARB payment of project obligation of Program funds to the local agency, and continue for the term of the grant agreement. ARB staff may standardize the submittal dates for these reports and notify local agencies. Local agencies shall submit semi-annual reports on the schedule

established by ARB. H&S §39625.02(f)(1) and Executive Order S-02-07. The purpose of the report is to ensure that each local agency project is being executed in a timely fashion, within the scope and budget identified when ARB awarded funding.

At a minimum, the semi-annual report shall include the following information data:

- All data required in the quarterly report.
- ~~Start and end dates of most recent equipment project solicitation.~~
- ~~The competitively ranked equipment project list identifying each equipment project application received by the local agency through the solicitation process, and containing the following information for each equipment project:~~
 - ~~Description of the equipment project.~~
 - ~~The weighted emission reductions and reductions per State dollar invested.~~
 - ~~Funding status (funded, funded from backup list, not funded).~~
 - ~~Funding amount (amount of Program funds, amount of non-Program funds).~~
 - ~~Equipment project contract status (executed/not executed).~~
 - ~~Equipment pre-inspection status (scheduled/not-completed/completed).~~
 - ~~Equipment post-inspection status (scheduled/not-completed/completed).~~
 - ~~Equipment project status (active/withdrawn/ineligible/backup list).~~
- ~~The following information for the local agency project:~~
 - ~~Total emission reductions (combustion PM and NOx).~~
 - ~~Total Program funds obligated.~~
 - ~~Total Program funds expended/remaining (break down by project funds and administration funds).~~
 - ~~Total non-Program funds expended by source of funds.~~
- Amount of interest earned from Program funds.
- Recaptured fund activity (see Chapter IV.C.).
 - ~~Total interest earned from Program funds.~~

~~At a minimum, the semi-annual report shall include the following qualitative information:~~

- The anticipated costs of the local agency project compared to the total estimated cost in the grant agreement.
- Actions undertaken to ensure funded local agency project is being implemented according to budget allocations or a plan for achieving the benefits of the project by either down-scoping the project or by identifying alternative funding sources to meet any identified cost increases and remain within budget.
- ~~Costs of funded local agency project compared to the approved budget for funded local agency project.~~
- The anticipated duration of the local agency project compared to the original schedule at the time the grant agreement was executed.
- ~~Actual timeline and milestones of funded local agency project compared to the planned timeline for funded local agency project.~~
- ~~Actions undertaken to ensure funded local agency project is being implemented in a timely fashion.~~

- Status of equipment project tracking efforts to ensure compliance with operating conditions (including the results of the annual reports submitted by the equipment owners, once available).
- Status of equipment owner reporting compliance.
- A document signed by the local agency's Chief Administrative Officer, Chief Financial Officer, or and Program Grant Administrator verifying that the equipment project and financial data submitted in the report is complete, accurate, and that there are no known instances of fraud.
- Any other information requested by ARB staff.

~~Local agencies shall also submit to ARB copies of executed equipment project contracts. Local agencies may make and submit one complete copy of their standard contract format and then submit only the pertinent pages (initial page, signature page and page(s) describing the equipment project) of the contract to ARB. Local agencies shall submit only one copy of each contract or the pertinent pages of each contract.~~

3. Local agency project completion report

~~Local agencies shall submit to ARB a local agency project completion report on the full local agency liquidation of Program funds identified in an executed grant agreement. The project completion report shall be submitted no later than six months following the full local agency liquidation of Program funds under the grant agreement. H&S §39625.02(f)(2). This report shall provide information regarding the specific local agency expenditure of Program funds on administration and equipment project costs.~~

At a minimum, the local agency project completion report shall include the following, as applicable based on specific guidance from ARB staff:

- The final costs of the local agency project compared to the total estimated cost in the grant agreement.
- The duration of the local agency project compared to the original schedule at the time the grant agreement was executed.
- The performance outcomes of the project (number of pieces of cleaner equipment and reductions in PM and NOx emissions) compared to the performance benchmarks identified in the grant agreement.
- ~~A list of the completed equipment projects that includes:~~
 - ~~— Description of each completed equipment project.~~
 - ~~— Copies of invoices that document the amount of Program funds expended for each equipment project.~~
 - ~~— Total cost of funded local agency project compared to the approved budget for funded local agency project.~~
 - ~~— Actions undertaken to ensure funded local agency project was implemented according to budget allocations.~~
 - ~~— Actual timeline and milestones of funded local agency project compared to the planned timeline for funded local agency project.~~

- ~~— Action undertaken to ensure funded local agency project was implemented in a timely fashion.~~
- ~~— Total emission reductions achieved for each equipment project.~~
- ~~• Amount of interest accrued on Program funds.~~
- ~~• List and description of equipment projects funded with earned interest.~~
- ~~• Copies of executed equipment project contracts that that were not previously submitted.~~
- ~~• A brief narrative specifying: ongoing evaluation and auditing efforts and results; enforcement actions, recaptured funds, and any reverted funds.~~
- ~~• A document signed by the local agency's Chief Administrative Officer, Chief Financial Officer, and Program Grant Administrator verifying that the equipment project and financial data submitted in the report is complete, accurate, and that there are no known instances of fraud.~~

V. State Agency Project Implementation

ARB will enter into interagency agreements with other State agencies that are awarded funds for a truck loan or loan guarantee program (loan project). If ARB is the State agency, no interagency agreement is required. The interagency agreement shall specify the requirements that the State agency and/or its contractor(s) must meet. These include implementation and funding requirements.

A. Implementation Requirements

A State agency implementing a loan project (either directly or through contractors) must meet the following conditions:

- Use funds to upgrade or replace eligible diesel trucks according to the project specifications in Appendix A.
- Adhere to any financial terms and conditions established by ARB staff, which may include interest rate, loan term, and minimum credit requirements.
- Maintain a public website.
- Use marketing strategies in partnership with ARB and local agencies to target independent owner-operators and smaller fleets that need financial assistance.

For loan project applicants who are not receiving a Program grant, the State agency or its contractor(s) shall also:

- Determine that the applicants meet the Program eligibility requirements.
- Conduct a compliance check on the old vehicle and the equipment owner.
- Perform pre-inspections of old equipment.
- Perform post-inspections of new equipment.
- Ensure old equipment is scrapped.

B. Transfer, Obligation, and Expenditure of Funds

Funds will be considered obligated upon execution of the interagency agreement. ARB will transfer the funds to the State agency according to the terms of the interagency agreement.

If no interagency agreement is required because ARB is the recipient, funds are considered obligated when they are awarded by the Board and available to ARB for expenditure. Funds are considered expended (liquidated) when the State agency or its contractor(s) has completed the transaction which may include: executing loan documents, transferring funds into an account for loan guarantees, or transferring funds for interest rate subsidies.

C. Ongoing Evaluation of Loan and Loan Guarantee Programs

State agencies and any contractor(s) shall evaluate loan and loan guarantee projects on an ongoing basis to meet the accountability requirements of SB 88 and the Governor's Executive Order S-02-07. The State agency shall include information in its application to ARB for funding that describes the proposed actions evaluate these projects. ARB shall include appropriate provisions for ongoing evaluations in the interagency agreement.

Equipment owners shall permit the State agency, ARB, the Department of Finance, the Bureau of State Audits, or any authorized designee, access, during normal business hours, to conduct ongoing evaluations for the purpose of monitoring the Program.

D. State Agency Reporting Requirements

1. Semi-annual report

State agencies shall obtain, verify, and submit to ARB all equipment project reporting information as described below.

- Total number of truck projects funded, including the number of retrofits and replacements by loan type.
- Total Program funds obligated and liquidated.
- Amount of interest earned from Program funds.
- A cumulative list of all loan and loan guarantee projects funded under the interagency agreement.
- A document signed by an authorized individual of the State agency verifying that the equipment project and financial data submitted in the report is complete, accurate, and that there are no known instances of fraud.
- Any other information requested by ARB staff.

2. Project completion report

State agencies shall submit to ARB a local agency project completion report no later than six months following the full local agency liquidation of Program funds under the interagency agreement. H&S §39625.02(f)(2).

This report shall provide information regarding the expenditure of Program funds on administration and equipment project costs.

The State agency project completion report shall include the following, as applicable based on specific guidance from ARB staff:

- The final costs of the project compared to the total estimated cost in the interagency agreement.
- The duration of the project compared to the original schedule at the time the interagency agreement was executed.
- The performance outcomes of the project (number of cleaner trucks funded compared to the performance benchmarks identified in the interagency agreement).
- A list of the completed loan and loan guarantee projects.
- Amount of interest accrued on Program funds.
- List and description of equipment projects funded with earned interest.
- A document signed by an authorized individual of the State agency verifying that the equipment project and financial data submitted in the report is complete, accurate, and that there are no known instances of fraud.

VI. ~~IV.~~General Equipment Project Requirements

A. Ownership Requirements

Equipment project applications shall be signed and submitted only by the current owner of the existing equipment owners that will be upgraded or replaced. Equipment project applications for ships at berth and locomotive emissions capture and control systems shall be signed and submitted by the future owner of the new equipment because there is no existing equipment. Non-owner applications are not eligible for funding.

Individuals or companies that operate the existing equipment ~~or will operate the replacement equipment~~ under a lease agreement with the equipment owner are prohibited from applying for bond funding.

Individuals or companies that currently own the equipment but will operate the replacement equipment under a lease-to-own agreement but may participate if a lease-to-own program is offered by the local agency according to the provisions outlined in Chapter ~~IV.A.13.~~ III.D.12.

The owner of existing equipment applying for truck replacement under a lease-to-own program may apply jointly with the proposed lessor or lessee.

B. Third Party Applications

Third party applications are not allowed. The owner of the existing equipment must sign and agree to the submittal of the equipment project application.

A third party may, however, complete an application (in whole or in part) on the owner's behalf. Equipment project applications shall include a signature section for third parties. The third party signature section shall include signature and date lines, and blanks for the third party to list how much they are being paid, if anything, to complete the application and what source of funds are being used to pay them.

C. Equipment Project Specifications

Equipment owners may refer to Appendices A-~~EG~~ for descriptions and specifications for the equipment projects eligible for Program funds FY2007-08 funds under this Program. However, as described in Chapter III.B.2., local agencies may submit local agency project applications that include allowable project alternatives. Equipment projects shall comply with all requirements and restrictions in the Guidelines, except for those allowable alternatives that the local agency is approved to implement, consistent with Chapter III.C.

Equipment owners are advised to carefully review the information packets provided by local agencies during the equipment project solicitation period.

D. Equipment Project Application Requirements

1. Equipment project information

Equipment owners are required to provide project applications information for the applicable ~~shall contain the equipment project application information option~~ identified in Appendices A-~~EG~~ of these Guidelines. This typically includes information on: the equipment owner, the existing equipment, the proposed equipment project (with funding level and project life), costs, schedules, and operational/activity data to quantify the benefits of the equipment project.

2. Equipment project schedule

~~Equipment project applications shall include a~~ As part of the application, equipment owners shall commit to meeting project schedule requirements listed in the equipment project application for the major milestones listed by source category in Appendices A- ~~EG~~ and ~~a commitment by the equipment owner to meet the schedule identified in the application.~~ The equipment project schedule shall also be included as part of the equipment project contract signed between the local agency and equipment owner. Adjustments to the schedule prior to contract execution may only occur with local agency consent.

3. Case-by-case equipment projects

Only equipment project options specifically identified in these Guidelines shall be eligible for Program funds ~~FY2007-08 funds under this Program~~. Equipment project options beyond those identified in these Guidelines may be recommended to ARB staff for inclusion in future Guideline updates.

4. Certifications and disclosures

Equipment project applications shall include certifications and disclosures that the equipment owner shall sign, that include, at a minimum:

- Certification that once the equipment owner submits signs the equipment project application, the owner shall not submit other applications to local agencies in any trade corridor for funding for the same truck, locomotive, equipment, vessel, berth, or facility under this Program or the Carl Moyer program. This prohibition does not include applications for loans or loan guarantees.
- Disclosure of any other source(s) of funding that the equipment owner has applied for that would be used for the same equipment project. The disclosure shall identify the source of funds, how much is being applied for, and what the funding would be used for.
- Disclosure of the value of any existing financial incentive that directly reduces the project cost, including tax credits or deductions, grants, or other public financial assistance, for the same equipment project.

- Certification that the equipment owner has reviewed the application and that the application information is correct.
- Certification that neither the owner nor equipment identified in the equipment project application has any outstanding violations of ARB regulations.
- Certification that equipment project match funding is reasonably available to complete the equipment project according to the proposed timeframe.
- Certification that Program funds were not used to previously upgrade the equipment identified in the equipment project application, except for funds received to retrofit a truck with a diesel PM filter. ~~For example, an owner of a truck that received funding for a retrofit device under this Program may not subsequently submit an application for Program funds to replace that truck.~~
- Certification that the equipment owner has all the information needed to understand what must be done to maintain eligibility for Program funds. This includes maintaining registration; keeping equipment in legal operating condition; correcting any air pollution citations; and reporting, repairing or replacing equipment that has been damaged, destroyed or stolen. ARB staff will develop a fact sheet for all local agencies for incorporation or attachment to the application.

The equipment owner may be allowed to re-apply for equipment project funding if a previous application for the same project has been rejected and is no longer being considered by a local agency for funding.

An equipment owner who is found to have submitted multiple applications for the same equipment project and not disclosed any other requested, or received financial incentive may ~~shall, at a minimum,~~ be disqualified from funding for that engine or piece of equipment under ~~from~~ this Program. The equipment owner may also be prohibited from submitting future applications to any and all ARB incentive programs, or local agency incentive programs.

5. Equipment project funding demonstration

Equipment project applications shall list the source(s) ~~require a demonstration of the availability of the necessary~~ funds to complete the proposed equipment project, including the proposed Program funds, and matching funds from other State, local, federal, or private sources. The equipment owner may be required to demonstrate fund availability or provide proof of approved financing at any time during the application and review process.

Equipment project applications ~~may shall~~ identify any loan or lease-to-own programs the equipment owner intends to utilize to fully fund the equipment project.

The total project cost shall include the purchase price of the equipment, including shipping charges, and the cost of installation or construction (as applicable). Installation costs shall only include installation of the components necessary to operate the equipment.

- Program funds may only be used for eligible expenses.
- Optional items (such as cigar lighters or custom mud flaps on trucks) shall be paid at the owner's expense.
- Taxes, fees, insurance, and other charges may not be included as part of the total project cost.
- Electricity and fuel costs may not be included in the project cost.
- Costs for equipment and parts on engine repower projects are only eligible for funding if they are required to ensure the effective installation and functioning of the new engine, and achieve the expected emissions performance, but are not part of typical vehicle or equipment maintenance or repair. Examples of ineligible repower costs include, but are not limited to: tires, axles, paint, brakes, and mufflers.

The equipment owner may estimate the total project cost in the first year of operation.

6. Equipment owner signature

~~Equipment project applications shall be signed by the equipment owner and submitted to the local agency with an original signature.~~

E. Equipment Project Operation

Equipment owners with executed equipment project contracts shall be responsible for the operation of equipment funded under this Program, in compliance with the conditions of the contract. Except for approved truck lease-to-own programs, equipment owners may not assign, sell, transfer, license, or subcontract any rights or obligations to a third party without the express prior written consent of the local agency.

E. Equipment Project Contract Requirements

F. Equipment Accidentally Rendered Inoperable or Stolen

If the equipment owner's insurance company or the local agency determines that Program-funded equipment has been accidentally rendered inoperable, the equipment owner may replace the inoperable equipment with equipment certified to equal or lower emission levels, and continue with the terms of the original contract or request to close-out the terms of the contract with the local agency. The equipment owner shall notify the local agency if that owner chooses to use his/her own funds to replace the inoperable equipment with equipment certified to equal or lower emission levels, and continue with the terms of the original contract. The equipment owner shall be responsible for providing the local agency with updated information for the new equipment.

If the equipment owner reports to the local agency that the Program-funded equipment has been stolen, and this is confirmed by a police report and an insurance company determination of loss due to theft, the equipment owner may replace the stolen

equipment with equipment certified to equal or lower emission levels at his/her own cost, and continue with the terms of the original contract or request to close-out the terms of the contract with the local agency.

The equipment owner shall notify the local agency if he or she chooses to close-out the contract due to accident or theft. The equipment owner shall provide supporting documentation (e.g., salvage title, policy report, insurance company determination, copy of insurance company reimbursement quote/check, and/or other) to the local agency exhibiting that the equipment was accidentally rendered inoperable or stolen and remit the following amount to the local agency:

Insurance reimbursement amount (minus any lien amounts), or

$$\text{Contract Recapture Amount} = \text{Contract Value} - \left(\text{Elapsed Equipment Project Life} \times \frac{\text{Contract Value}}{\text{Equipment Project Life}} \right)$$

Example: An equipment owner receives \$50,000 in Program funding for a truck replacement project. The owner signs an equipment project contract for five years (60 months). Three years and six months (42 months) after the project has been post-inspected and placed into operation, the equipment is rendered inoperable according to the above description. The equipment owner may request to close-out the terms of the contract and pay \$15,000 to the local agency.

Contract Recapture Amount: \$15,000 = \$50,000 – (42 months x (\$50,000/60 months))

G. F.Equipment Transfer/Sales Requirements

Equipment owners with executed equipment project contracts with a local agency shall be fully and legally responsible for the operation of equipment funded under this Program in compliance with the conditions of the contract. Equipment owners may not assign, sell, transfer, license, or subcontract any rights or obligations to a third party without the express prior written consent of the local agency.

If the original owner of Program-funded equipment chooses to sell the equipment for any reason, or is required to replace the equipment with cleaner equipment prior to the end of the equipment project life, the original owner shall notify the local agency and receive prior written consent for the transaction from the local agency.

Prior to completing the transaction, the original owner shall inform the party purchasing the equipment of the equipment project contract provisions, and disclose the remaining contract term. The original owner shall be responsible for establishing contact between the new owner and local agency ~~in order~~ to facilitate the transfer of the contract provisions and terms. The original owner shall be responsible for providing the local agency with the purchase price of all sold Program-funded equipment.

The original owner shall provide the prospective new owner with valid contact information for the local agency so the new owner can assume legal responsibility under

the original contract or enter into a new equipment project contract with the local agency, for the remainder of the contract term. The original equipment owner who received Program funding shall not be relieved of his or her legal obligation to fulfill the conditions of the contract unless the new owner has assumed responsibility through an executed contract with the local agency.

If the equipment is sold, and the original equipment owner failed to fulfill the responsibilities described in this section, remedies for equipment project non-performance shall be imposed.

H. Optional Equipment Project Contract Buy-out

If the owner of Program-funded equipment cannot meet the obligations of the equipment project contract for any reason and does not use the options in sections F and G above, the owner may request to buy-out the remaining time on the contract prior to the end of the contract term. The owner shall notify the local agency and receive prior written consent for the transaction from the local agency. The equipment owner shall remit the contract buy-out amount to the local agency, based on the remainder of the contract value and an administrative fee. Any monies received by the local agency under this buy-out provision shall be treated as recaptured funds subject to the requirements of Chapter IV.C. The contract buy-out amount shall be determined according to the following formula:

Equipment Project Contract Buy-Out Formula:

$$\text{Contract Buy-Out Amount} = \left(\text{Contract Value} - \frac{\text{Elapsed Equipment Project Life} \times \text{Contract Value}}{\text{Equipment Project Life}} \right) + \text{Admin Fee}$$

The Administrative Fee shall be:

- \$5,000 for truck projects.
- \$10,000 for locomotive, commercial harbor craft, and cargo equipment projects.
- \$250,000 for ships at berth projects.

Example: An equipment owner receives \$50,000 in Program funding for a truck replacement project. The owner signs an equipment project contract for five years (60 months). Three years and six months (42 months) after the project has been post-inspected and placed into operation, the equipment owner requests to close-out the outstanding contract. The equipment owner may request to close-out the terms of the contract and pay \$20,000 to the local agency.

Contract Buy-out Amount: \$20,000 = (\$50,000 - (42 months x (\$50,000/60 months))) + \$5,000

I. ~~G.~~ Equipment Project Non-performance

~~Local agencies shall obligate all Program funds for equipment projects through funding commitments that shall become legally enforceable through executed equipment project contracts between the local agency and equipment owners. Equipment project contract requirements and terms are contained in Chapter III.D.10.~~

All equipment project contracts signed by the equipment owner shall include non-performance provisions enforceable by the local agency. Non-performance includes, but is not limited to:

- Failure to meet the terms and conditions of an executed equipment project contract, including, but not limited to, equipment operating conditions and geographic restrictions.
- Equipment/engine is non-operational, ~~or malfunctioning,~~ or damaged.
- Failure to operate or maintain equipment in accordance with manufacturer's recommendations.
- Failure to meet established deadlines for equipment project completion.
- Failure to allow for an electronic monitoring device, or tampering with an installed device or data.
- Misuse of direct payments to vendors provisions.
- Insufficient, incomplete, or faulty equipment project documentation.
- Failure to provide required documentation or reports in a timely manner.

Remedies for equipment project non-performance may include, but are not limited to:

- Recovery of all or a portion of Program funds.
- Other fiscal penalties on equipment owners based on the severity of the non-performance.
- Cancellation of the contract.
- A ban on the equipment owner's ability to participate in future State incentive programs.
- Prohibiting a specific piece of equipment from participating in another State incentive program.

APPENDICES

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APPENDICES A-E

Project Specifications for FY2008-09 and Later Funds by Source Category

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APPENDIX A Heavy Duty Diesel Trucks (Combines Port/Rail Yard and Other Trucks)

A. Equipment Project Specifications

Heavy Duty Diesel Trucks

Eligible Equipment	<p>Heavy-duty diesel trucks used to move goods (a majority of the time) with a declared Gross Vehicle Weight (GVW) or declared Combined Gross Vehicle Weight (CGW) of 60,001 lbs. or greater on current Department of Motor Vehicle (DMV) registration (DMV weight code "K" or higher) and a manufacturer's gross vehicle weight rating (GVWR) of 31,000 lbs. or greater listed on the application and verified at pre-inspection.</p> <p>Equipment owner must demonstrate:</p> <ul style="list-style-type: none"> • At least 75% operation within California for the past 2 years. • Registration: <ul style="list-style-type: none"> ○ Continuous registration (California base-plated or International Registration Plan (IRP)) in California for the past 2 years, or ○ Current California registration and minimum 8 months available California DMV registration history supplemented by alternate documentation showing California operation for the past 2 years. • New engines for repower or replacement projects meet the applicable Program requirements: <ul style="list-style-type: none"> ○ MY2010 emissions means 0.20 g/bhp-hr or less NOx (FEL and CERT values) and 0.01 g/bhp-hr or less PM (CERT value) as certified by an ARB Executive Order for on-road use with an intended service of Heavy-Heavy Duty Diesel (HHDD) for diesel engines or Heavy Duty Otto (HDO) for applicable alternative fuel vehicles. ○ MY2007 emissions means 1.20 g/bhp-hr or less NOx (FEL and CERT values) and 0.01 g/bhp-hr or less PM (CERT value) as certified by an ARB Executive Order for on-road use with an intended service of HHDD for diesel engines or HDO for applicable alternative fuel vehicles. • New or used trucks purchased for a truck replacement project have a manufacturer's GVWR of 33,001 lbs. or greater (Class 8). <p>Drayage truck owners are eligible to apply for priority drayage truck funding that may be available for truck replacement projects if the owner demonstrates all of the following for the existing truck to be replaced:</p> <ul style="list-style-type: none"> • Meets all of the other requirements of this section. • Has a MY1994-2003 engine. • Was registered in the California Drayage Truck Registry and was retrofitted with an ARB-verified Level 3 diesel particulate filter by June 30, 2010. • Made at least 12 visits to California ports and rail yards (combined) over the last 12 months.
Ineligible Equipment	<ul style="list-style-type: none"> • Trucks subject to ARB's public and utility fleet rule. • Trucks subject to ARB's solid waste collection vehicle rule. • Trucks subject to ARB's diesel cargo handling equipment rule.

Heavy Duty Diesel Trucks (cont.)

General Requirements (applicable to all project options)	<p>Equipment owner shall:</p> <ul style="list-style-type: none">• Commit to the project life specified with the applicable equipment project option.• Adhere to all Program Requirements during the project life.• Commit to 100% California-only operation (or 90% if that option is offered by the local agency and has been selected by the equipment owner for a replacement project) and California base-plated registration. Dual plates and out-of-state registrations are prohibited.• Commit to at least 50% of travel within the four trade corridors for the duration of the project life.• Maintain current DMV registration with a declared GVW or CGW of 60,001 lbs. or greater (DMV weight code "K" or higher) at all times during the project life.• Agree to accept an on-board electronic monitoring unit at any time during the project life.• Agree to equipment inspections.• Comply with record-keeping, reporting, and audit requirements.• Sign a legally binding contract with the local agency including project milestone and completion deadlines.• Properly maintain truck in good operating condition and according to manufacturer's recommendations.• Maintain collision/comprehensive insurance on the truck for replacements.• Demonstrate proof of equipment warranty on the program-funded equipment.• Correct outstanding ARB equipment violations associated with the owner's entire fleet of vehicles.
Modifying an Application	<p>ARB will post and update information describing the installation and operational deadlines and when the program-funded vehicle will become eligible to be included in the equipment owner's Statewide Truck and Bus Rule fleet compliance strategy for the applicable project option on the Program website.</p> <p>Equipment owners may change the project option, funding option or lease-to-own program participation after the local agency solicitation period has closed if permitted by the local agency and subject to the following requirements:</p> <ul style="list-style-type: none">• The change must result in a funding amount equal to or less than the amount that was requested in the original application.• The change must result in a calculated project cost-effectiveness equal to or greater than the project listed in the original application. <p>Equipment owners cannot substitute a different vehicle or change the ownership of the existing vehicle identified on the application after the local agency solicitation period has closed.</p>

Heavy Duty Diesel Trucks (cont.)

<p>Option (1) PM Retrofit</p>	<p>Partial funding (see options below) to retrofit an eligible MY1994–2006 heavy duty diesel engine with an ARB verified Level 3 Plus diesel particulate filter that reduces PM by 85% or more. Trucks serving ports and intermodal rail yards (as indicated by the Drayage Truck Registry) are not eligible.</p>
<p>Funding Options</p>	<ol style="list-style-type: none"> 1. \$5,000/truck with a project life of 2 years. Program-funded diesel particulate filter shall be installed and operational (post inspection completed) at least 6 months prior to a regulatory requirement for that technology or level of emissions control under the best available control technology provisions of any adopted rule for in-use trucks. 2. \$10,000/truck with project life of 4 years. Program-funded diesel particulate filter shall be installed and operational (post inspection completed) at least 12 months prior to a regulatory requirement for that technology or level of emissions control under the best available control technology provisions of any adopted rule for in-use trucks.
<p>Requirements</p>	<p>In addition to the General Requirements listed previously, equipment owner shall:</p> <ul style="list-style-type: none"> • Commit to 100% California-only operation. • Demonstrate that any mid-1990s engine subject to the software upgrades for diesel trucks (i.e., chip reflash) has completed the upgrade.

Heavy Duty Diesel Trucks (cont.)

<p>Option (2) PM + NOx Retrofit</p>	<p>Partial funding of up to \$20,000/truck to retrofit an eligible MY2004–2006 heavy duty diesel truck engine with an ARB-verified diesel emission control strategy (VDECS) that reduces NOx exhaust emissions by an amount that meets the 2007 or 2010 Model Year NOx Emissions Equivalent and reduces diesel PM by 85% or more.</p>
<p>Requirements</p>	<p>Program-funded VDECS and diesel particulate filter shall be installed and operational (post inspection completed) at least 3 years prior to a regulatory requirement for that technology or level of emissions control under the best available control technology provisions of any adopted rule for in-use trucks. For fleets of 3 or fewer trucks, the equipment project shall be installed and operational at least 2 years prior to a regulatory requirement for that technology or level of emissions control under the best available control technology provisions of any adopted rule for in-use trucks.</p> <p>The 2007 Model Year NOx Emissions Equivalent is defined by the California Code of Regulations, Section 2025 as one of the following:</p> <ul style="list-style-type: none"> • A 2004–2006 model year heavy-duty diesel engine equipped with a VDECS that reduces NOx exhaust emissions by at least 40% (ARB Mark 2 rating). <p>The 2010 Model Year NOx Emissions Equivalent is defined by the California Code of Regulations, Section 2025 as one of the following:</p> <ul style="list-style-type: none"> • A 2004–2006 model year heavy-duty diesel engine equipped with a VDECS that reduces NOx exhaust emissions by at least 85% (ARB Mark 5 rating). <p>In addition to the General Requirements listed previously, equipment owner shall:</p> <ul style="list-style-type: none"> • Commit to a project life of 5 years or 500,000 miles, whichever comes first. • Commit to 100% California-only operation.

Heavy Duty Diesel Trucks (cont.)

Option (3) Repower	Partial funding of up to \$30,000/truck to repower a truck with an eligible MY1994–2006 or older heavy duty diesel engine with a new engine that meets MY2010 emissions.
Requirements	<p>Program-funded engine shall be installed and operational (post inspection completed, except scrappage) at least 3 years prior to a regulatory requirement for that technology or level of emissions control under the best available control technology provisions of any adopted rule for in-use trucks. For fleets of 3 or fewer trucks subject to the Statewide Truck and Bus Rule and all eligible 1999 or older trucks, the equipment project shall be installed and operational at least 2 years prior to a regulatory requirement for that technology or level of emissions control under the best available control technology provisions of any adopted rule for in-use trucks.</p> <p>In addition to the General Requirements listed previously, equipment owner shall:</p> <ul style="list-style-type: none">• Commit to a project life of 5 years or 500,000 miles, whichever comes first.• Commit to 100% California-only operation.• Scrap the old engine.• Purchase a minimum of a 1-year or 100,000-mile major component engine warranty for the replacement engine that covers parts and labor.• Provide a copy of ARB Executive Order documenting that the new engine meets MY2010 emissions.

Heavy Duty Diesel Trucks (cont.)

<p>Option (4) Replacement</p> <p>Funding Options (drayage trucks)</p> <p>Funding Options (other trucks)</p> <p>Funding Option (90% California operation)</p>	<p>Partial funding (see options below) to replace 1 or 2 truck(s) equipped with eligible MY2003 or older heavy duty diesel engine(s) with a diesel or alternative fuel truck.</p> <p>Owners of eligible drayage trucks with a MY1994-2003 engine that commit to 100% California-only operation may have the option to compete for prioritized funding as follows:</p> <ol style="list-style-type: none"> 1. \$50,000/truck for a replacement truck with an engine that meets MY2010 emissions. 2. \$30,000/truck for a replacement truck with an engine that meets MY2007 emissions. To be eligible, the replacement truck must have less than 500,000 miles with odometer verification to occur at the post inspection. <p>Note: If priority drayage truck funding is exhausted before all eligible drayage trucks are funded, any remaining, unfunded drayage trucks will compete with other trucks.</p> <p>Owners of all eligible non-drayage trucks that commit to 100% California-only operation can compete for funding as follows:</p> <ol style="list-style-type: none"> 1. \$60,000/truck for a replacement truck with an engine that meets MY2010 emissions. 2. \$40,000/truck for a replacement truck with an engine that meets MY2007 emissions. To be eligible, the used replacement truck must have less than 500,000 miles with odometer verification to occur at the post inspection. <p>Eligible trucks that occasionally drive out-of-state and commit to 90% California-only operation may compete at a funding level that is \$10,000 less than the applicable funding option shown above if the local agency offers this option in an open solicitation. Equipment owners participating in this option must do the following at their own expense: (1) install an approved, active GPS system in the funded truck; (2) pay for monthly electronic service for the project life; and (3) provide electronic monitoring and activity reports when requested by the local agency or ARB, in the format defined by ARB staff.</p>
<p>Requirements</p>	<p>Program-funded replacement projects shall be purchased and operational (post-inspection completed, except scrappage) at least 3 years prior to a regulatory requirement for that technology or level of emissions control under the best available control technology provisions of any adopted rule for in-use trucks. For fleets of 3 or fewer trucks subject to the Statewide Truck and Bus Rule and all eligible 1999 or older trucks, the equipment project shall be installed and operational at least 2 years prior to a regulatory requirement for that technology or level of emissions control under the best available control technology provisions of any adopted rule for in-use trucks.</p> <p>In addition to the General Requirements listed previously, equipment owner shall:</p> <ul style="list-style-type: none"> • Commit to a project life of at least 5 years or 500,000 miles, whichever comes first. • Commit to 100% California-only operation (or 90% if that option has been selected). • Scrap the old truck(s). • Purchase a minimum of a 1-year or 100,000-mile major component engine warranty for the replacement vehicle that covers parts and labor. • Provide a copy of ARB Executive Order documenting that the new truck engine meets the applicable MY2007 or MY2010 emissions.

Heavy Duty Diesel Trucks (cont.)

<p>Option (5) Three-Way Truck Transactions</p>	<ol style="list-style-type: none"> 1. \$60,000/truck to replace an eligible truck that has a MY1998–2006 engine (Truck A) with a diesel or alternative fuel truck (Truck C) meeting MY2010 emissions. 2. Optional \$5,000/truck to equip Truck A with an ARB-verified Level 3 Plus diesel particulate filter that reduces diesel PM by 85% or more; and 3. Scrap a MY1993 or older diesel truck (Truck B) and replace with Truck A. <p>Truck A: Heavy duty diesel truck with MY1998–2006 engine. Truck B: Heavy duty diesel truck with MY1993 or older engine. Truck C: Heavy duty truck (diesel or alternative) that meets MY2010 emissions.</p>
<p>Requirements</p>	<p>Truck C shall be purchased and operational (post inspection completed, except scrappage) at least 3 years prior to a regulatory requirement for that technology or level of emissions control under the best available control technology provisions of any adopted rule for in-use trucks. For fleets of 3 or fewer trucks subject to the Statewide Truck and Bus Rule and all eligible 1999 or older trucks, the equipment project shall be installed and operational at least 2 years prior to a regulatory requirement for that technology or level of emissions control under the best available control technology provisions of any adopted rule for in-use trucks.</p> <p>Truck A shall be equipped with an operational diesel particulate filter at least 6 months prior to a regulatory requirement for that technology or level of emissions control under the best available control technology provisions of any adopted rule for in-use trucks if optional retrofit funding is received for Truck A.</p> <p>In addition to the applicable General Requirements listed previously, the original owner of Truck A and new owner of new Truck C shall:</p> <ul style="list-style-type: none"> • Equip Truck A with an ARB verified Level 3 Plus diesel particulate filter and transfer ownership (if applicable) to the owner of old Truck B. • Commit to a project life of 5 years or 500,000 miles, whichever comes first, on Truck C. • Commit to 100% California-only operation. • Purchase a minimum of a 1-year or 100,000-mile major component engine warranty for Truck C that covers parts and labor. • Provide a copy of ARB Executive Order documenting that the new truck engine in Truck C meets MY2010 emissions. • Demonstrate that any mid-1990s engine subject to the software upgrades for diesel trucks (i.e., chip reflash) has completed the upgrade on Truck A. <p>In addition to the applicable General Requirements listed previously, the original owner of old Truck B and new owner of retrofit Truck A shall:</p> <ul style="list-style-type: none"> • Scrap Truck B. • Commit to a project life of 2 years and all applicable Program requirements on Truck A. • Commit to 100% California-only operation.

Heavy Duty Diesel Trucks (cont.)

<p>Eligible Equipment</p>	<p>Truck stops, intermodal facilities, distribution centers, and other places where Class 8 heavy diesel trucks (over 33,000 lbs) congregate in a trade corridor.</p>
<p>Option (6) Electrification Infrastructure for Truck Stop or Distribution Center</p>	<p>Landside electrification infrastructure to reduce diesel engine idling and use of diesel-fueled internal combustion auxiliary power systems may be funded at the lower of 50% of eligible project costs or a level commensurate with a cost-effectiveness of 0.20 pounds of weighted emissions reduced per State dollar invested. Truck stop/distribution center electrification infrastructure projects shall be eligible to compete for funding only if the cost-effectiveness is equal or greater than 0.20 pounds of weighted emissions reduced per State dollar invested.</p>
<p>Requirements</p>	<p>Eligible costs include purchase and installation of electrical infrastructure to: enable heating, cooling, and the use of cab power for parked trucks at truck stops; and enable the use of power for transport refrigeration units and auxiliary power systems at distribution centers, intermodal facilities, and other places where trucks congregate. Reimbursement for the eligible costs shall be based on demonstrated use over the first year of operation.</p> <p>Ineligible costs include on-board auxiliary power units and other equipment installed on trucks, transport refrigeration units, electricity costs and operation and maintenance costs.</p> <p>In addition to the General Requirements listed previously, equipment owner shall:</p> <ul style="list-style-type: none"> • Commit to 10 years of operation. • Agree to equipment inspections. • Comply with record-keeping, reporting, and audit requirements. • Sign a legally binding contract with the local agency including project milestone and completion deadlines. • Properly maintain upgraded equipment in good operating condition and according to manufacturer's recommendations. • Demonstrate proof of equipment warranty. • Comply with all local permitting requirements.
<p>Project Cost Assumptions</p>	<p>Option (1): Average cost of a diesel particulate filter is ~\$15,000. Option (2): Total cost of a NOx+PM retrofit is expected to be \$40,000. Option (3): Total cost of a repower project is expected to be \$60,000. Option (4,5): Total cost of a new MY2010 compliant truck is ~\$120,000 (diesel) to ~\$180,000 (natural gas). Total cost of a used MY2007 truck (in 2011-2012) is expected to be \$60,000-\$80,000 (diesel). Option (6) Total cost for distribution centers is \$1,500-\$7,000/plug at dock; \$2,500 - \$9,000/plug in parking areas; \$500-\$2,000/adaptor for trailers and TRUs. Total cost for truck stops is \$6,000-\$18,000/parking space; \$3,000/truck modification.</p>

B. Major Milestones for Project Completion

a) Heavy duty diesel trucks

- Equipment order.
- Equipment acquisition/installation.
- Submittal of invoice to local agency for payment.
- Scrappage of old truck.

b) Truck stop/distribution center electrification

The equipment project schedule shall include, but is not limited to, the following milestones:

- Completion and certification of any required CEQA documents.
- Bid solicitation, evaluation and award, and construction contract.
- Acquisition of any local permits, or other requirements.
- Electrification system design, unit acquisition, and delivery.
- Project completion.
- Post-inspection by the local agency.
- Reporting to local agency of actual electrical use by trucks during first year of operation.
- Submittal of invoice to local agency for reimbursement.

C. Application Information

Equipment owners shall provide the following information and documentation in addition to the requirements described in Chapter III, and other information ARB or local agencies may request on the equipment project applications. The local agency shall enter the equipment application information into the Goods Movement Online Database.

All equipment project applications must include the information specified below in:

- Section 1 - General information.
- Section 2 - Current equipment and activity information.
- Section 3 a-d - Proposed equipment project information. (Include information, as applicable, for each equipment project option).

1. General information

This section applies to all equipment project options.

- Name or applicant (current owner of existing truck, including for potential lease-to-own institutions).
- Business name.
- Mailing address.
- Primary contact name and phone number.
- Person with equipment contract signing authority (owner).
- Proof of identity of current equipment owner (and lessor for lease-to-own).
- Business information:
 - Fleet size (if applicable).
 - Number of employees.
 - Number of truck spaces (truck stops).
 - Number of docks (distribution centers).
- A statement signed and dated by the current equipment owner acknowledging all application items are true/correct and there are no outstanding ARB violations on any equipment within the owner's entire fleet.

2. Current equipment and activity information

a) *Heavy duty diesel trucks*

- Truck data.
 - Truck make, model, and model year.
 - Vehicle Identification Number.
 - Declared GVW or CGW as shown on current DMV registration.
 - Gross vehicle weight rating (GVWR).
 - Vehicle license plate number.
 - Engine make, model, engine year, and serial number.
 - Engine horsepower and fuel type.
 - Current odometer reading (estimate total engine mileage if odometer is missing or broken).
 - Date a diesel particulate filter was previously installed on truck and verified control level of that filter (if applicable).
- Truck documentation.
 - Current California registration including registered owner.
 - Registration showing California operation for the past 2 years or 8 months of available California DMV registration history supplemented by alternate documentation showing California operation for the past 2 years.
 - Documentation of current ownership (copy of title of truck) for any truck that will be scrapped or reused. This requirement does not apply to retrofit or repower projects.

- Vocation and activity data for the past 2 years (unless noted otherwise).
 - Vocation(s) – the types of goods typically transported.
 - Drayage Truck Registry (DTR) status as of June 30, 2010.
 - Number of California port and rail yard visits (combined) in the past 12 months.
 - Annual vehicle miles of travel (VMT) in California.
 - Estimated percentage of annual VMT in:
 - Bay Area trade corridor.
 - Central Valley trade corridor.
 - Los Angeles/Inland Empire trade corridor.
 - San Diego/Border trade corridor.
 - Documentation to verify reported VMT may be required. Examples of documentation include logbooks, fuel records, maintenance records, or tax records.
 - For concrete mixer trucks, dump trucks, and other truck types specifically identified by ARB staff, the owner may provide the Power Take Off (PTO) hours in conjunction with VMT:
 - Documentation from the hour meter unit is required.
 - PTO hours will be converted to miles based on factors supplied by ARB and combined with VMT in the calculation of emission reductions and cost-effectiveness.

Additional documentation may be requested by the local agency.

b) Truck stop/distribution center electrification

- Location and description of facility where electrification infrastructure is proposed for installation.
- Quantification of current annual truck operations and TRU operations at the facility.
- Baseline emissions (without the project) for first 10 years of operation of proposed electrical infrastructure (developed with the concurrence of the local air district) – this emission estimate shall fully reflect the benefits of all adopted regulations including ARB rules for trucks, idling, auxiliary power systems, TRUs, and TRUs with generators sets.

Additional documentation may be requested by the local agency.

3. Proposed equipment project information

a) *Heavy duty diesel trucks*

(i) *Option (1): PM retrofit*

- Retrofit device data.
 - ARB-verified retrofit device company and name of device.
 - ARB Executive Order number for retrofit device.
 - ARB-verified NOx reduction and PM reduction (percent).
- Itemized cost information for eligible expenses (verifiable quote).
- Equipment project funding demonstration.
 - Total project cost.
 - Program dollars requested.
 - Source and amounts of other funding (private, local, other State, federal).
 - Request for a direct payment to vendor (if applicable).
 - Total project cost (Program dollars requested plus other match funding).
 - Documentation of match funding availability.

(ii) *Option (2): PM + NOx retrofit*

- Retrofit device data.
 - ARB-verified retrofit device company and name of device.
 - ARB Executive Order number for retrofit device.
 - ARB-verified NOx reduction and PM reduction (percent).
- Itemized cost information for eligible expenses (verifiable quote).
- Equipment project funding demonstration.
 - Program dollars requested.
 - Source and amounts of other funding (private, local, other State, federal).
 - Request for a direct payment to vendor (if applicable).
 - Total project cost (Program dollars requested plus other match funding).
 - Documentation of match funding availability.

(iii) *Option (3): Repower*

- Engine repower data.
 - Engine make, engine model, and engine year.
 - Engine horsepower and fuel type.
- Repower documentation.
 - Documentation of all engine/truck modifications planned as part of the repower project. Include description of upgrades to such things as exhaust systems, electronics, etc.
- Itemized cost information for eligible expenses (verifiable quote).

- Equipment project funding demonstration.
 - Total project cost.
 - Program dollars requested.
 - Source and amounts of other funding (private, local, other State, federal).
 - Total project cost (Program dollars requested plus other match funding).
 - Documentation of match funding availability.

(iv) Option (4): Replacement

- New truck data.
 - Truck make, model, and model year.
 - Manufacturer's gross vehicle weight rating (GVWR).
 - GVW or CGW that will be declared on the new DMV registration.
 - Engine make, engine model, and engine year.
 - Engine horsepower and fuel type.
- Itemized cost information for eligible expenses (verifiable quote).
- Equipment project funding demonstration.
 - Total project cost.
 - Program dollars requested.
 - Source and amounts of other funding (private, local, other State, federal).
 - Request for a direct payment to vendor (if applicable).
 - Total project cost (Program dollars requested plus other match funding).
 - Documentation of match funding availability.
 - Interest in lease-to-own option.

(v) Option (5): Three-way truck transaction

- Truck A (retrofitted truck) data.
 - ARB-verified retrofit device company and name of device.
 - ARB Executive Order number for retrofit device.
 - ARB-verified NOx reduction and PM reduction (percent)
 - Itemized cost information for eligible expenses (verifiable quote).
- Equipment project funding demonstration.
 - Total project cost.
 - Program dollars requested.
 - Source and amounts of other funding (private, local, other State, federal).
 - Request for a direct payment to vendor (if applicable).
 - Total project cost (Program dollars requested plus other match funding).
 - Documentation of match funding availability.
- Truck C (new truck) Data
 - Truck make, model, and model year.
 - Manufacturer's gross vehicle weight rating (GVWR).
 - GVW or CGW that will be declared on the new DMV registration.
 - Engine make, engine model, and engine year.
 - Engine horsepower and fuel type.
- Truck C itemized cost information for eligible expenses (verifiable quote).

- Equipment project funding demonstration (combined Truck A and Truck C)
 - Total project cost.
 - Program dollars requested.
 - Source and amounts of other funding (private, local, other State, federal).
 - Request for a direct payment to vendor (if applicable).
 - Total project cost (Program dollars requested plus other match funding).
 - Documentation of match funding availability.

b) Option (6): Truck stop/distribution center electrification

- Electrification infrastructure information.
 - Project description and design, including number and location of electrification units to be installed, with individual and total power requirements.
 - Equipment vendor(s).
 - Itemized cost information by phase (e.g., design, environmental, construction).
- Predicted activity data with new equipment.
 - Estimated annual truck connections to electric power and average connection time.
 - Estimated annual TRU connections to electrical power and average connection time.
 - Expected power usage for trucks and TRUs (separately), each year for the first 10 years of operation.
- Projected emissions and benefits of the project.
 - Emissions with the project over a 10-year period.
 - Emission reductions attributable to the project (beyond those required by law or regulation) for a 10-year period beginning in the 1st year of operation.
 - Demonstration that the weighted emission reductions per State dollar invested is equal or better than 0.20 pounds per State dollar.
- Equipment project funding demonstration.
 - Program dollars requested.
 - Funding sources and amounts of other funding (private, local, other State, federal).
 - Total project cost (Program dollars requested plus other match funding).
 - Documentation of match funding availability.

D. Scrap Requirements

In addition to the general scrappage requirements listed in Chapter IV, specific requirements for repower, replacement, and three-way truck transaction projects are shown below.

Table A.1. Truck Equipment Project Scrap Requirements

Source Category	Equipment Project Option	Additional Requirements
Heavy Duty Diesel Trucks	Option (3) Repower	<ul style="list-style-type: none"> • The local agency shall ensure the impound and transport of the old engine to the licensed dismantler within 30 calendar days of the new engine being placed into operation. • The licensed dismantler must dismantle and destroy the old engine within 60 calendar days of receipt. The engine destruction must be done in accordance with these Guidelines. • The engine block shall be punctured and destroyed in such a manner to eliminate the possibility of future operation. • The licensed dismantler shall provide proof of scrapping to the local agency within 10 calendar days of the destruction of the engine. • The local agency or its designee must provide digital photographs, described below, showing the destruction of the old engine. The local agency must receive these photos within 10 calendar days of the engine being scrapped. • The following digital photos must be taken and labeled for the project file: <ol style="list-style-type: none"> 1. Engine tag with serial number, engine family number, and engine model year 2. Destroyed engine block.

Table A.1. Truck Equipment Project Scrap Requirements (cont.)

Source Category	Equipment Project Option	Additional Requirements
Heavy Duty Diesel Trucks	Option (4) Replacement	<p>In addition to the requirements listed above for engine repower projects, replacement projects require:</p> <ul style="list-style-type: none"> • The local agency shall ensure the impound and transport of the old truck to the dismantler within 30 calendar days of the replacement vehicle being placed into operation. • The licensed dismantler must dismantle and destroy the old truck within 60 calendar days of receipt. The destruction must be done in accordance with these Guidelines. • Sever the old vehicle frame rails to ensure that the vehicle is rendered useless and to prevent repeated use. • The following digital photos must be taken and labeled for the project file: <ol style="list-style-type: none"> 1. Engine tag with serial number, engine family number, and engine model year. 2. Destroyed engine block either inside or outside truck body. 3. Vehicle Identification Number printed by manufacturer inside cab. 4. Truck view from front angle capturing entire truck with readable license plate. • The equipment owner or licensed dismantler must file a VIN hold with DMV, and submit either REG 488C “Non-Repairable Vehicle Certificate” or REG 42 “Notice to Dismantler,” with DMV, and submit a copy to the local agency at the time of the post-inspection. Any additional substitute documentation must be verified by ARB to ensure that the scrapped equipment is permanently removed from service. • The licensed dismantler shall provide proof of scrappage to the local agency within 10 calendar days of the destruction of the vehicle.
	Option (5) Three-way Truck Transaction	<ul style="list-style-type: none"> • Truck B (old truck) must be scrapped in accordance with the equipment project scrap requirements listed in Option 4.

E. Post-Inspection

- For truck replacement equipment projects, the post-inspection shall occur within 60 calendar days of the old truck being delivered to a certified dismantler.
- For truck retrofit equipment projects, the post-inspection shall occur within 30 calendar days of installation of the fully operational equipment.
- For truck stop/distribution equipment projects, the post-inspection shall occur within 60 calendar days of owner receipt of fully operational equipment.

Table A.2. Truck Post-Inspection Requirements

Source Category	Equipment Project Option	Additional Requirements
Heavy Duty Diesel Trucks	PM Retrofit or PM + NOx Retrofit	<ul style="list-style-type: none"> • Name, address and telephone number of company(s) that installed the retrofit. • Name of the retrofit manufacturer(s). • Retrofit model and serial number(s). • Year that the retrofit was manufactured (if not listed on device label, information may be obtained from the retrofit manufacturer by reference to serial number). • Date the retrofit was installed. • If not in the application file, copy of ARB Executive Order documenting the retrofit meets the specifications.
	Repower	<ul style="list-style-type: none"> • Name, address and telephone number of company(s) that installed the new engine. • Engine make, model, model year. • Engine family name and number. • Engine serial number. • Date the new engine was installed. • If not in the application file, copy of ARB Executive Order documenting that the new engine meets MY2010 emissions.

Table A.2. Truck Post-Inspection Requirements (cont.)

Source Category	Equipment Project Option	Additional Requirements
Heavy Duty Diesel Trucks	Replacement	<ul style="list-style-type: none"> • Vehicle type. • Vehicle identification number (VIN). • Vehicle make, model, model year. • Combined Gross Vehicle Weight (CGW). • Fuel type. • Vehicle license plate number (for a new vehicle, owner shall provide license plate number upon receipt from the DMV). • CA Highway Patrol number. • Engine make, model year, engine year. • Engine family name and number. • If not in the application file, copy of ARB Executive Order documenting that the replacement truck engine meets MY2010 emissions or MY2007 emissions, as applicable.
	Three-way Truck Transaction	<p>* See individual post inspection requirements for retrofit and replacement.</p>
	Truck Stop/Distribution Center	<ul style="list-style-type: none"> • Name of power system manufacturer. • Serial number and date of manufacture. • Rated amperage, voltage. • Verification that each project's pedestal and/or external air conditioning/power system is operational. • Inspection shall include verification of operation by connecting heavy duty truck cab and/or transport refrigeration unit (as appropriate) to a random number of pedestals or external air conditioning/power system. • Inspections: <ul style="list-style-type: none"> ○ An initial inspection shall be completed within 60 calendar days of owner receipt of fully operational equipment. <ul style="list-style-type: none"> ▪ The initial inspection shall include a review of equipment owner's procedures to collect use data for first year of operation. ○ A second inspection (which corresponds to the proper post-inspection) shall be completed within 60 calendar days of owner completion of first year of operation. <ul style="list-style-type: none"> ▪ Reimbursement of equipment costs can only be requested after obtaining a satisfactory second inspection.

F. Recordkeeping Requirements

Equipment owners shall retain, at a minimum, all documents, invoices, and correspondence associated with the application award, contract, purchase, installation, equipment operation (and if applicable, registration, insurance and warranty), and reporting for at least 2 years after the end of the equipment project contact term or 3 years after final payment, whichever is later. Records shall be readily available and accessible to the local agency, ARB, or ARB designee upon request for the purposes of ongoing evaluations or audits.

G. Annual Reporting Requirements

a) Heavy duty diesel trucks

Equipment owners shall be responsible for annual reporting to the local agency except for owners with PM retrofits with a 2-year contract who only need to report at the end of the 2 year project life. The equipment owner shall submit annual reports for the equipment project life. The equipment owner's annual report shall include, but is not limited to:

- Contact information (owner name, address, phone, etc.).
- Proof of California registration.
- Proof of insurance.
- Current odometer reading (estimate total vehicle mileage if odometer is missing or broken).
- Annual VMT since last report.
- Certification of the required California-only operation. Certification of at least 50 percent of travel in the four trade corridors as well as provide the percentage of annual vehicle miles of travel in:
 - Bay Area trade corridor.
 - Central Valley trade corridor.
 - Los Angeles/Inland Empire trade corridor.
 - San Diego/Border trade corridor.
- Summary of maintenance performed and inspections conducted.
- Certification that the bond-funded project was operated in accordance with the signed contract, and that all information submitted is true and accurate.
- Other information as requested by the local agency.

b) Truck stop/distribution center electrification

Equipment owners shall be responsible for annual reporting to the local agency for the project life. The equipment owner annual report shall include, but is not limited to:

- Contact information (owner name, company, address, phone).
- Facility location.
- Project completion date.
- Monthly truck and TRU connections to electrical power and electricity usage for each month in the reporting year.
- Summary of maintenance and inspections conducted.
- Signed certification statement that the bond-funded project was installed and is operating as it was approved in the post-inspection and that all information submitted to the local agency is true and accurate.
- Other information as requested by the local agency.

APPENDIX B Locomotives and Rail Yards

A. Equipment Project Specifications

Locomotives and Rail Yards

<p>Eligible Equipment</p>	<p><u>Locomotive projects:</u> Diesel-powered freight locomotives with no or minimal emissions control technology (i.e., uncontrolled, or meeting Tier 0 or Tier 1 standards).</p> <p>Equipment owner must demonstrate:</p> <ul style="list-style-type: none"> • Operation or equivalent locomotive horsepower operation in California for the past 2 years. • At least 50% operation or equivalent locomotive horsepower operation within trade corridor(s) for the past 2 years. • Estimated diesel fuel usage of 20,000 gallons per year or greater. <p><u>Rail yard projects:</u> Existing freight rail yards in a trade corridor.</p>
<p>General Requirements (applicable to all project options)</p>	<p>Equipment owner shall:</p> <ul style="list-style-type: none"> • Commit to the project life specified with the applicable equipment project option. • Adhere to all Program Requirements during the project life. • Agree to equipment inspections. • Comply with record-keeping, reporting, and audit requirements. • Sign a legally binding contract with the local agency including project milestone and completion deadlines. • Properly maintain upgraded equipment in good operating condition and according to manufacturer's recommendations. • Demonstrate proof of equipment warranty and insurance on upgraded equipment. • Certify that there are no outstanding ARB violations associated with the equipment or owner. • Exclude any program-funded equipment from the compliance calculations for the 1998 agreement for Locomotives in the South Coast Air Basin for the duration of the project life (applicable to UP and BNSF only).

Locomotives and Rail Yards (cont.)

<p>Option (1): Switcher Locomotive (1,006 hp – 2,300 hp)</p>	<p>Partial funding (see options below) to replace, repower or rebuild an uncontrolled, Tier 0, or Tier 1 switcher locomotive with a new generator-set, hybrid or alternative technology.</p>
<p>Funding Options</p>	<ol style="list-style-type: none"> 1. The lower of 50% of the eligible cost or \$750,000/locomotive to achieve emissions of 3.5 g/bhp-hr or less for NOx, and 0.10 g/bhp-hr or less for PM. 2. \$1,000,000/locomotive to meet U.S. EPA Tier 4 or lower emission standards for NOx only or PM only. 3. \$1,200,000/locomotive to meet U.S. EPA Tier 4 or lower emission standards for both NOx and PM.
<p>Requirements</p>	<p>Eligible costs include a new chassis, freshly manufactured engine(s), diesel PM filter, selective catalytic reduction device for NOx control, and mechanical/electrical systems components necessary for safe operation.</p> <p>Ineligible costs include auto start/stop devices required by regulation or agreements, GPS units and associated monitoring and reporting costs, design, engineering, consulting, license, registration, taxes, insurance, operation, maintenance and repair.</p> <p>The new equipment must meet the required emission standards as evidenced by an ARB verified U.S. EPA engine certification test (funding Option 1 only) or a U.S EPA Certificate of Conformity (funding Options 1,2 or 3) under the switcher duty-cycle.</p> <p>In addition to the General Requirements, equipment owner shall:</p> <ul style="list-style-type: none"> • The equipment may be permitted to temporarily travel out-of-state for periodic maintenance if outlined in the contract between the local agency and equipment owner. • Commit to a project life of 15 years. • Commit to 100% operation within the four California trade corridors for the duration of the project life. • Scrap or ban old engine/locomotive from California operation. • Install an active GPS unit on both old (if not scrapped) and new equipment, fund data collection, and report location data.

Locomotives and Rail Yards (cont.)

<p>Option (2): (Medium Horsepower) Line-haul Locomotive (2,301 hp – 4,000 hp)</p>	<p>Partial funding (see options below) to replace, repower or rebuild an uncontrolled, Tier 0, or Tier 1 line-haul locomotive with a new engine or alternative technology.</p>
<p>Funding Options</p>	<ol style="list-style-type: none"> 1. The lower of 50% of the eligible cost or \$750,000/locomotive to achieve emissions of 4.0 g/bhp-hr or less for NOx, and 0.10 g/bhp-hr or less for PM. 2. \$1,000,000/locomotive to meet U.S. EPA Tier 4 or lower emission standards for NOx only or PM only. 3. \$1,500,000/locomotive to meet U.S. EPA Tier 4 or lower emission standards for both NOx and PM.
<p>Requirements</p>	<p>Eligible costs include a new chassis, freshly manufactured or rebuilt engine(s), diesel PM filter, selective catalytic reduction device for NOx control, other emission control equipment, and new or upgraded mechanical/electrical/control system components necessary for safe operation.</p> <p>Ineligible costs include auto start/stop devices required by regulation or agreements, GPS units and associated monitoring and reporting costs, design, engineering, consulting, license, registration, taxes, insurance, operation, maintenance and repair.</p> <p>The new equipment must meet the required emission standards as evidenced by an ARB verified U.S. EPA engine certification test (funding Option 1 only) or a U.S. EPA Certificate of Conformity (funding Options 1, 2 or 3). under the line-haul duty-cycle.</p> <p>In addition to the General Requirements listed previously, equipment owner shall:</p> <ul style="list-style-type: none"> • The equipment may be permitted to temporarily travel out-of-state for periodic maintenance if outlined in the contract between the local agency and equipment owner. • Commit to a project life of 15 years. • Commit to 100% California-only operation for the duration of the project life. The funded intrastate line-haul locomotive shall use California ARB diesel fuel. • Commit to at least 50% of operation within the four California trade corridors for duration of the project life. • Scrap or ban old engine/locomotive from California operation. • Install an active GPS unit on both old (if not scrapped) and new equipment, fund data collection, and report location data.

Locomotives and Rail Yards (cont.)

<p>Option (3): Line-Haul Locomotive (4,001 hp or higher)</p>	<p>Partial funding (see options below) to replace, repower or rebuild an uncontrolled, Tier 0, or Tier 1 line-haul locomotive with a new engine or alternative technology.</p>
<p>Funding Options</p>	<ol style="list-style-type: none"> 1. The lower of 50% of the eligible cost or \$1,200,000/locomotive to meet U.S. EPA Tier 3 or lower emission standards for both NOx and PM through use of a Tier 3 engine or Tier 2 engine with certified "Tier 2 Plus" kit. 2. \$1,500,000/locomotive to meet U.S. EPA Tier 4 or lower emission standards for NOx only or PM only. 3. \$2,000,000/locomotive to meet U.S. EPA Tier 4 or lower emission standards for both NOx and PM.
	<p>Eligible costs include a new chassis, freshly manufactured or rebuilt engine(s), new Tier 2 engine(s), a U.S. EPA Certified "Tier 2 Plus" retrofit kit, new generator set(s), diesel PM filter, selective catalytic reduction device for NOx control, other emission control equipment, and new or upgraded mechanical/electrical/control system components necessary for safe operation.</p> <p>Ineligible costs include auto start/stop devices required by regulation or agreements, GPS units and associated monitoring and reporting costs, design, engineering, consulting, license, registration, taxes, insurance, operation, maintenance and repair.</p>
<p>Requirements</p>	<p>The new equipment must meet the required emission standards as evidenced by an ARB verified U.S EPA Certificate of Conformity under the line-haul duty-cycle. Any equipment project which utilizes a "Tier 2 Plus" retrofit kit must have the post-inspection completed (except scrappage) by December 31, 2012.</p> <p>In addition to the General Requirements listed previously, equipment owner shall:</p> <ul style="list-style-type: none"> • The equipment may be permitted to temporarily travel out-of-state for periodic maintenance if outlined in the contract between the local agency and equipment owner. • Commit to a project life of 15 years. • Commit to 100% California-only operation for the duration of the project life. The funded intrastate line-haul locomotive shall use California ARB diesel fuel. • Commit to at least 50% of operation within the four California trade corridors for the duration of the project life. • Scrap or ban old engine/locomotive from California operation. • Install an active GPS unit on both old (if not scrapped) and new equipment, fund data collection, and report location data.
<p>Project Cost Assumptions</p>	<ul style="list-style-type: none"> • Estimated total cost of new switcher generator-set is ~ \$1.5 - \$2 million. • Estimated cost for a line-haul repower is ~ \$1 - \$2 million. • Estimated total cost of a new line-haul locomotive is ~ \$2 - \$3 million. • Estimated cost of a "Tier 2 Plus" retrofit device kit is ~ \$250,000.

Locomotives and Rail Yards (cont.)

<p>Option (4): Locomotive Emissions Capture and Control System</p>	<p>Partial funding for the lower of 50% of eligible costs or a level commensurate with a cost-effectiveness of at least 0.15 lbs/State dollar for the purchase and installation of an ARB-approved locomotive emission capture and control system (a.k.a. hood or bonnet) to reduce diesel PM and NOx emissions from freight locomotives.</p> <p>Eligible costs include purchase and installation of the emission treatment system, ducting and hoods or bonnets necessary to connect to locomotives.</p> <p>Ineligible costs include those associated with increasing the capacity of electrical power to the facility, locomotive modifications to accept capture and control system, locomotive or other acquisition and modification for a portable system, design, engineering, consulting, environmental review, legal fees, permits, licenses and associated fees, taxes, utility construction or metered costs, insurance, operation, maintenance and repair.</p>
<p>Requirements</p>	<p>In addition to the General Requirements listed previously, equipment owner shall:</p> <ul style="list-style-type: none"> • Commit to a project life of 10 years. • Commit to 100% operation within the four California trade corridors for the duration of the project life. • Document the system is commercially available and achieves an overall capture and control efficiency rate of at least 85% for the removal of NOx and PM. • Demonstrate system performance and efficiency with source testing prior to funding and annually thereafter by capturing emissions from an operating locomotive undergoing diagnostic procedures. Performance measures include: (i) no visible emissions after bonnet is connected to the locomotive (opacity<20%); and (ii) establish overall system efficiency rate is at least 85% using ARB approved methods for flow rate (Methods 1 to 4), NOx (ARB Method 100) and PM (ARB Method 5). Any alternative test methods must be approved by ARB. • Obtain a 10-year manufacturer’s warranty (including labor and materials) to repair and/or replace system component(s) as needed to correct any mechanical, electrical or control system equipment or installation problems which may cause significant loss of capture, treatment efficiency or usability. The manufacturer’s warranty may exclude minor items that are subject to normal wear and tear if approved by ARB. • Comply with all local permitting requirements.
<p>Excluded Funding Components</p>	<ul style="list-style-type: none"> • Electricity costs required to operate the hood control system. • Other operation and maintenance costs.
<p>Project Cost Assumptions</p>	<ul style="list-style-type: none"> • Estimated total cost of new switcher generator-set is ~ \$1.5 - \$2 million. • Estimated cost for a line-haul repower is ~ \$1 - \$2 million. • Estimated total cost of a new line-haul locomotive is ~ \$2 - \$3 million. • Estimated cost of a “Tier 2 Plus” retrofit device kit is ~ \$250,000. • Estimated capital cost for the locomotive emissions capture and control system of one 12,500 scfm unit with 12 bonnets is ~\$9 million.

B. Major Milestones for Project Completion

- Equipment order.
- Equipment acquisition/installation.
- Submittal of invoice to local agency for reimbursement.

C. Application Information

- Equipment owners shall provide the following information and documentation in addition to the requirements described in Chapter V, and other information ARB or local agencies may request on the equipment project applications.
- UP and BNSF must certify that any locomotive that would operate in the South Coast Air Basin will be excluded from the railroads fleet average emissions calculations under the 1998 agreement.

1. General information

This section applies to all equipment project options.

- Organization/agency/company name.
- Railroad Class (1, 2, or 3).
- Mailing address.
- Primary contact name and phone number.
- Person with equipment contract signing authority (owner).
- Proof of identity of equipment owner.
- Business information.
 - Number of locomotives.
 - Number of employees.

2. Current equipment and activity information

a) Switcher and line-haul equipment project options

- Existing locomotive information.
 - Locomotive type (diesel/electric, alternative technology).
 - Build number, build date.
 - Builder.
 - Locomotive make, model, serial number.

- Engine data (per engine).
 - Modifications (roots blown, turbo-charged, other).
 - Emission control level (uncontrolled, Tier 0, or Tier 1).
 - Engine family, make and type, model, engine year.
 - Serial number.
 - Horsepower.
 - Number of cylinders.
 - Fuel type.
- Electronic monitoring unit device type and model (if equipped).
- Ownership.
 - Documentation of current ownership.
- Activity data for the past 2 years (for existing unit or units of comparable horsepower and function).
 - Annual fuel consumption (gallons of fuel), or
 - Annual megawatt hours of operation.
- Activity documentation for past 2 years (for existing unit or units of comparable horsepower and function).
 - Documentation of at least 50 percent of operation in trade corridors.
 - Identify the trade corridors in which the equipment is routinely operated.
 - Documentation of fuel consumption.
 - Documentation of megawatt hours of operation, or
 - ARB staff shall post on the Program website additional instructions for applicants demonstrating eligibility based on units of comparable horsepower and function.

b) Locomotive emissions and capture control system for rail yards

- Facility location.
 - Address of rail yard where technology will be installed.
 - Description and area map of rail yard facility where system is proposed for installation.
- Rail yard activity.
 - Quantification of current annual locomotive maintenance and diagnostic operations at the area within facility where infrastructure is proposed.
 - Number and type of units being serviced.
 - For each type of unit being serviced, provide average time spent in idling and on each notch level while being serviced or in diagnostics.
- Baseline emissions (without the project in place) for the 10 years of operation of the system. This baseline should reflect the benefits of all adopted regulations.

Additional documentation may be requested by the local agency.

3. Proposed equipment project information

a) *Switcher locomotive*

- New switcher data.
 - Locomotive type (diesel-electric, gen-set, alternative technology).
 - Builder name.
 - Locomotive make.
 - Locomotive family name.
 - U.S. EPA engine certification test results for switcher duty cycle with ARB verification (PM and NOx in g/bhp-hr).
 - Engine data (per engine).
 - Modifications (roots blown, turbo-charged, other).
 - Engine family, make and engine year.
 - Horsepower.
 - Number of cylinders.
 - For new switcher gen-sets, provide the number of engines, and each engine horsepower and kilowatts-hour.
 - Fuel type.
 - Electronic monitoring device unit type and a description or sample of the type/format of reportable data.
- Itemized cost information for eligible expenses (verifiable quote).
 - Locomotive, engine, or generator set (as applicable).
 - Other equipment/materials.
- Predicted activity data with new equipment.
 - Estimated annual fuel consumption (gallons of fuel).
 - Estimated annual megawatt hours of operation.
- Equipment project funding demonstration.
 - Program dollars requested.
 - Funding sources and amounts of other funding (private, local, other State, federal).
 - Total project cost (Program dollars requested plus other match funding).
 - Documentation of match funding availability.

b) *Line-haul locomotive*

- New locomotive or engine data.
 - Locomotive type (diesel-electric, gen-set, alternative technology).
 - Builder name.
 - Locomotive make.
 - Emission rates certified by US EPA and verified by ARB for line haul duty cycle (PM and NOx in g/bhp-hr).
 - Engine data (per engine).
 - Modifications (roots blown, turbo-charged, other).
 - Engine family, make and engine year.
 - Horsepower.
 - Number of cylinders.

- For new gen-sets, provide the number of engines and each engine horsepower and kilowatts-hour.
 - Fuel type.
 - Electronic monitoring device unit type and a description or sample of the type/format of reportable data.
- Itemized cost information for eligible expenses (verifiable quote).
 - Locomotive or engine (as applicable).
 - Other equipment/materials.
- Predicted activity data with new equipment.
 - Estimated annual fuel consumption (gallons of fuel).
 - Estimated annual megawatt hours of operation.
- Equipment project funding demonstration.
 - Funding sources and amounts of other funding (private, local, other State, federal).
 - Total project cost (Program dollars requested plus other match funding).
 - Documentation of match funding availability.

c) Locomotive emissions capture and control system

- Project description and design, including:
 - Number of emissions capture systems (bonnets) per unit.
 - Number of emissions treatment systems.
 - Support structure.
 - Emissions overhead manifold.
- Emission control equipment data.
 - Equipment(s) vendor(s).
 - Documentation of percent PM and NOx emission reductions.
- Itemized cost for each eligible expense.
- Predicted locomotive activity data with new system over project life.
 - Number and type of locomotive units using the hood.
 - Average time locomotives will spend under the hood idling and in notches 1-8 for each unit type identified above.
 - Power usage to run the system and source of power (grid vs. non-grid).
 - Natural gas usage (if any) for heating SCR duct burner.
- Projected emissions and benefits with the project.
 - Emissions with and without the project over 10 years of operation.
 - Emission reductions attributable to the project (beyond those required by any law or regulation) for 10 years.
 - Demonstration that the weighted emission reductions are equal to or higher than 0.15 pounds per State dollar invested.
- Equipment project funding demonstration.
 - Total project cost.
 - Program dollars requested.
 - Funding sources and amounts of other funding (private, local, other State, federal).
 - Documentation of match funding availability.

D. Scrap Requirements

In addition to the general scrappage requirements listed in Chapter IV, specific requirements for locomotive repower and replacement projects are shown below.

Table B.1. Locomotive Equipment Project Scrap Requirements

Source Category	Equipment Project Option	Additional Requirements
Locomotives	Project Options (1), (2) or (3) Repower or Replacement	<ul style="list-style-type: none"> • The local agency shall ensure the impound and transport of the old engine(s) to the licensed dismantler within 30 calendar days of the new engine(s) being placed into operation. • The licensed dismantler must dismantle and destroy the old engine(s) within 60 calendar days of receipt. The engine destruction must be done in accordance with these Guidelines. • The engine block shall be punctured and destroyed in such a manner to eliminate the possibility of future operation. • The licensed dismantler shall provide proof of scrappage to the local agency within 10 calendar days of the destruction of the engine. • The local agency or its designee must provide digital photographs, described below, showing the destruction of the old engine. The local agency must receive these photos within 10 calendar days of the engine being scrapped. • The following digital photos must be taken and labeled for the project file: <ol style="list-style-type: none"> 1. Engine serial number either stamped on the block or on the tag. 2. Destroyed engine block.

E. Alternative to Scrapping

If the equipment owner has elected to ban the old locomotive or locomotive engine from future operations in California, the equipment owner shall demonstrate to the local agency’s satisfaction that the following requirements are met for the duration of the contract:

- An active GPS device has been installed in the old equipment.
- The GPS device is fully operational and can be easily tracked.
- Provide local agency the GPS manufacturer’s name, date of manufacture, and serial number of device.
- If old engine or old locomotive is remanufactured, equipment owner must provide remanufacturing date, remanufacturer’s name, and sufficient information to identify remanufactured engine and, if applicable, remanufactured locomotive, including changes to emissions levels.

- If old equipment is sold, new owner must assume GPS tracking and reporting responsibilities.
- Data collection is fully funded by equipment owner.
- Report old unit future locations to local agency in the manner indicated in contract.

The old equipment, equipped with the GPS, shall be removed from California within 60 calendar days of receiving the fully operational upgraded equipment.

F. Post-Inspection

In addition to the general post-inspection requirements in Chapter IV., specific requirements for locomotive post-inspections are shown below.

- For locomotive projects, the post-inspection shall occur within 60 days of owner receipt of fully operational equipment.

Table B.2. Locomotive Post-Inspection Requirements

Source Category	Equipment Project Option	Additional Requirements
Locomotives	Option (1), (2), and (3) Switcher and Line-Haul Locomotives	<ul style="list-style-type: none"> • Locomotive engine must be operated under its own power under loaded conditions. • Engine make, model, engine year, and serial number for repower and replacement projects. • Start and end dates of when locomotive was repowered. • Name and address of company that repowered the locomotive engine.
	Option (4) Locomotive Emissions Capture and Control System	<ul style="list-style-type: none"> • Verify that source testing demonstrates the required capture and control efficiency. • The fully operational system must be connected to an operating locomotive and complying with performance measures stated in the specification.

G. Recordkeeping Requirements

Equipment owners shall retain, at a minimum, all documents, invoices, and correspondence associated with the application, award, contract, purchase, installation, equipment operation (and if applicable, registration, insurance and warranty), and reporting for at least 2 years after the end of the equipment project contact term or 3 years after final payment, whichever is later. Records shall be readily available and accessible to the local agency, ARB, or ARB designee upon request for the purposes of ongoing evaluations or audits.

H. Annual Reporting Requirements

Equipment owners shall be responsible for annual reporting to the local agency that includes, but is not limited to:

1. Annual reporting for switcher and line haul locomotives

- Contact information (owner name, company, address, phone).
- Build number, date, builder, builder model.
- Date of equipment installation.
- Locomotive type and name of home rail yard.
- Annual megawatt-hours of operation, and fuel consumed since last report.
- Representative profile data to determine engine duty cycle.
- Certification of California-only operation.
- Summary of maintenance performed (including location) and inspections conducted.
- GPS data in a usable format.
- Certification and documentation of 100 percent of travel in trade corridors for switcher locomotives, and 50 percent operation in trade corridors for line-haul locomotives.
- The percentage of annual travel in each trade corridor:
 - Bay Area trade corridor.
 - Central Valley trade corridor.
 - Los Angeles/Inland Empire trade corridor.
 - San Diego trade corridor.
- Certification that the bond-funded project was used in accordance with the signed contract and that all information submitted is true and accurate.
- Other information as requested by ARB or the local agency.

2. Annual reporting for locomotive emissions capture and control system

- Contact information (owner name, company, address, phone).
- Description of locomotive emissions capture and control system.
- Rail yard name/identifier.
- Date and location of equipment installation.
- Total hours the equipment operated while connected to an operating locomotive over the reporting period.
- Total number of locomotives connected to the system over the reporting period.
- Estimated average locomotive engine size (in horsepower) connected to the system.
- Power usage to run the hood and source of power (grid or generator).
- Natural gas usage (if any) for heating SCR duct burner.
- Summary of maintenance, source testing and inspections conducted.
- Signed certification statement that the bond-funded project was operated in accordance with signed contract and that all information submitted is true and accurate.
- Other information as requested by the local agency or ARB.

APPENDIX C Ships at Berth

A. Equipment Project Specifications

Ships at Berth

<p>Eligible Equipment</p> <p>General Requirements (applicable to all project options)</p>	<p>Existing cargo ship berth or existing cargo ship terminal at a seaport located in a trade corridor.</p> <p>Equipment owner shall:</p> <ul style="list-style-type: none"> • Commit to the project life specified with the applicable equipment project option. • Adhere to all Program Requirements during the project life. • Comply with record-keeping, reporting, and audit requirements. • Sign a legally binding contract with the local agency and the port (if not the same entity) including project milestone and completion deadlines. • If the equipment owner is also the local agency administering the grant, the local agency must sign a legally binding contract with ARB including project milestone and completion deadlines. • Properly maintain all equipment in good operating condition and according to manufacturer's recommendations. • Demonstrate proof of equipment warranty and insurance on new equipment. • Comply with local permitting requirements.
<p>Option (1) Grid-Based Power</p> <p>Requirements</p>	<p>Partial funding up to the lower of 50% of eligible shore-side costs to install permanent, grid-based electrical power at a cargo ship berth or:</p> <p>(1) \$3,500,000/berth for completed projects that begin operation by January 2012. (2) \$3,000,000/berth for completed projects that begin operation by January 2013. (3) \$2,500,000/berth for completed projects that begin operation by January 2014.</p> <p>Eligible costs include equipment necessary to purchase and install infrastructure to supply electrical power, and connect the equipment to cargo ships at berth, and those associated with increasing the capacity of electrical power to the port.</p> <p>Ineligible costs include shipside modifications to accept shore-based electrical power, design, engineering, consulting, environmental review, legal fees, permits, licenses and associated fees, taxes, utility construction or metered costs, insurance, operation, maintenance and repair.</p> <p>In addition to the General Requirements listed previously, equipment owner shall:</p> <ul style="list-style-type: none"> • Commit to a project life of 10 years for the use of grid-based shore power at the berth at the following levels or greater: <ul style="list-style-type: none"> ○ 50% of the ship visits in 2012-2013 (if applicable). ○ 60% of the ship visits in 2014-2016. ○ 80% of the ship visits in 2017-2019. ○ 90% of the ship visits in 2020 and beyond. • Demonstrate operability with a cargo ship fully powered by shore-based electrical power supplied by the grid-based equipment.

Ships at Berth (cont.)

<p>Option (2) Non-Grid Based Power</p>	<p>Partial funding of up to \$200,000 per megawatt of the eligible costs of an electricity generating unit that provides power at a cargo ship berth or multiple berths. This unit can be portable or fixed on the terminal. Only zero emission units (e.g., fuel cell, solar), or natural gas engines equipped with selective catalytic reduction to control NOx emissions are eligible.</p> <p>Eligible costs include equipment necessary to generate electrical power, connect the equipment to cargo ships at berth, and those associated with increasing the capacity of electrical power to the port.</p> <p>Ineligible costs include construction and protection of infrastructure (e.g., natural gas lines) used to supply fuel for non-grid based electrical generation, shipside modifications to accept electrical power, barge or other acquisition and modification for a portable system, design, engineering, consulting, environmental review, legal fees, permits, licenses and associated fees, taxes, utility construction or metered costs, insurance, operation, maintenance and repair.</p>
<p>Requirements</p>	<p>In addition to the General Requirements listed previously, equipment owner shall:</p> <ul style="list-style-type: none"> • Commit to a project life of 5 years of 100% California operation at the following levels or greater: <ul style="list-style-type: none"> ○ Port of Los Angeles and Port of Long Beach: <ul style="list-style-type: none"> ▪ 2,000 hours per year in 2012-2013. ▪ 3,000 hours per year in 2014 and beyond. ○ All other ports in the four trade corridors: <ul style="list-style-type: none"> ▪ 1,000 hours per year in 2012-2013. ▪ 1,500 hours per year in 2014 and beyond. • Demonstrate operability with a cargo ship fully powered by shore-based electrical power supplied by the electricity generating unit. • Obtain a 5 year manufacturer's warranty which includes labor and materials to repair and/or replace system component(s) as needed to correct any mechanical, electrical or control system equipment or installation problems resulting in significant loss of usability. The manufacturer's warranty may exclude minor items that are subject to normal wear and tear if approved by ARB. • Perform source testing to measure emissions from the unit every 1,000 hours of operation, according to the source test requirements contained in ARB's Ships at Berth Rule.

Ships at Berth (cont.)

<p>Option (3) Ship Emissions Capture and Control System</p> <p>Requirements</p>	<p>Partial funding of up to the lower of 50% of the eligible costs or a level commensurate with a cost-effectiveness of at least 1.0 lbs/State dollar for the purchase and installation of a ship emissions capture and control system (a.k.a. hood or bonnet) to reduce diesel PM and NOx emissions at 85% from ships at berth. Only units that have ARB-approved capture and treatment efficiency rates for PM and NOx consistent with ARB's Ships At-Berth Rule are eligible for funding.</p> <p>Eligible costs include purchase and installation of the emission treatment system, ducting and hoods or bonnets necessary to connect to cargo ships at berth, and those associated with increasing the capacity of electrical power to the port.</p> <p>Ineligible costs include shipside modifications to accept capture and control system, barge or other acquisition and modification for a portable system, design, engineering, consulting, environmental review, legal fees, permits, licenses and associated fees, taxes, utility construction or metered costs, insurance, operation, maintenance and repair.</p> <p>In addition to the General Requirements listed previously, equipment owner shall:</p> <ul style="list-style-type: none"> • Commit to a project life of 10 years of 100% California operation at the following levels or greater: <ul style="list-style-type: none"> ○ Port of Los Angeles and Port of Long Beach: <ul style="list-style-type: none"> ▪ 2,000 hours per year in 2012-2013. ▪ 3,000 hours per year in 2014-2016. ▪ 4,000 hours per year in 2017-2019. ▪ 4,500 hours per year in 2020 and beyond. ○ All other ports in the four trade corridors: <ul style="list-style-type: none"> ▪ 1,000 hours per year in 2012-2013. ▪ 1,500 hours per year in 2014-2016. ▪ 2,000 hours per year in 2017-2019. ▪ 2,500 hours per year in 2020 and beyond. • Commit to 100% operation within the four California trade corridors for the duration of the project life. • Document the system is commercially available and achieves an overall efficiency rate of at least 85% for the capture and removal of NOx and PM. • Demonstrate system performance and efficiency with source testing prior to funding and annually thereafter by capturing emissions from a cargo ship at port. Performance measures include: (i) no visible emissions after bonnet is connected to the locomotive (opacity <20%); and (ii) establish overall system efficiency rate is at least 85% using ARB approved methods for flow rate (Methods 1 to 4), NOx (ARB Method 100) and PM (ARB Method 5). Any alternative test methods must be approved by ARB. • Obtain a 10 year manufacturer's warranty (including labor and materials) to repair and/or replace system component(s) as needed to correct any mechanical, electrical or control system equipment or installation problems which may cause significant loss of capture, treatment efficiency or usability. The manufacturer's warranty may exclude minor items that are subject to normal wear and tear if approved by ARB.
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Ships at Berth (cont.)

Project Cost Assumptions	<ul style="list-style-type: none">• Option 1: Total shore-side cost of equipping a berth with permanent grid-based electrical power is ~\$3 - 5 million/berth; some ports may incur higher costs to bring new/additional power capacity to the port that may increase the total cost to \$5 - 7 million/berth.• Option 2: Total cost of distributed generation power is anticipated to be \$4 million/ 2 MW unit.• Options 1 & 2: Shiplside modifications will cost ~\$500,000 - \$1 million/ship.• Option 3: Ship emissions capture and control system estimated capital cost is approximately \$6 million for the current standard design of one 12,500 scfm unit with single bonnet.
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B. Major Milestones for Project Completion

- Preliminary design.
- Environmental clearance (if applicable).
- Final design.
- Equipment acquisition (if applicable).
- Construction bid award.
- Construction completion/equipment installation.
- Submittal of invoice to local agency for reimbursement.

C. Application Information

Equipment owners shall provide the following information and documentation in addition to the requirements described in Chapter IV, and other information ARB or local agencies may request on the equipment project applications.

1. General information

This section applies to all equipment project options.

- Organization/agency/company name.
- Mailing address.
- Primary contact name and phone number.
- Person(s) with equipment contract signing authority (owner).
- Proof of identity of equipment owner.

2. Current equipment and activity information

Not applicable

3. Proposed equipment project information

a) Grid-based shore power

- Project Information.
 - Port where the berth is located.
 - Berth name/identifier and location within port.
 - Owner and operator of berth.
 - Project description, design, maximum power demand (kWh-hr).
 - Itemized cost information by phase (e.g., design, environmental, construction).
- Berth activity data for the past 2 years.
 - Number of ship visits to the berth.

- Ship information (per ship).
 - Number of visits per year.
 - Average hotelling time per visit (hours/visit).
 - Ship type, size (e.g., twenty-foot equivalent unit (TEU) capacity), description (e.g., number of engines, fuel type), power demand (total auxiliary power (kW), net hotelling load (kW)).
- Predicted berth activity data with new equipment.
 - Estimated annual ship visits using electrical power.
 - Estimated ship types, description, power demands.
 - Estimated monthly hours of operation.
 - Estimated monthly MW usage.
- Equipment project funding demonstration.
 - Program dollars requested.
 - Funding sources and amounts of other funding (private, local, other State, federal).
 - Total project cost (Program dollars requested plus other match funding).
 - Documentation of match funding availability.

b) Non-grid-based shore power

- Project Information.
 - Port where the berths are located.
 - Berth(s) name/identifier and location within port.
 - Owner and operator of berth.
 - Project description, design, maximum power demand (megawatts).
 - Itemized cost information for eligible expenses (verifiable quote).
- Berth activity data for the past 2 years (per berth).
 - Number of ship visits to the berth.
- Ship information (per ship).
- Number of visits per year.
 - Average hotelling time per visit (hours/visit).
 - Ship type, size (e.g., TEU capacity), description (e.g., number of engines, fuel type), power demand (total auxiliary power (kW)), net hotelling load (kW)).
- Predicted activity data with new equipment.
 - Estimated annual ship visits using electrical power.
 - Estimated ship types, description, power demands.
 - Estimated monthly hours of operation.
 - Estimated monthly MW usage.
- Equipment project funding demonstration.
 - Program dollars requested.
 - Funding sources and amounts of other funding (private, local, other State, federal).
 - Total project cost (Program dollars requested plus other match funding).
 - Documentation of match funding availability.

c) Ship emissions capture and control system

- Project description and design, including:
 - Number of emissions capture subsystems (bonnets) per unit.
 - Number of emissions treatment subsystems.
 - Support structure.
 - Any other components (ducts, etc.).
- Emission control equipment data.
 - Equipment(s) vendor(s).
 - Documentation of percent PM and NOx emission reductions.
- Itemized cost for each eligible expense.
- Predicted ship activity data with new system over project life.
 - Number and type of ships under the hood.
 - Average time ships will spend under the hood.
 - Power usage (kWh) to run the system and source of power (grid vs. non-grid).
 - Natural gas usage (if any) for heating SCR duct burner.
- Projected emissions and benefits with the project.
 - Emissions with and without the project over 10 years of operation.
 - Emission reductions attributable to the project (beyond those required by any law or regulation) for 10 years.
 - Demonstration that the weighted emission reductions are equal to or higher than 1.0 pounds per State dollar invested.
- Equipment project funding demonstration.
 - Total project cost.
 - Program dollars requested.
 - Funding sources and amounts of other funding (private, local, other State, federal).
 - Documentation of match funding availability.

D. Post Inspection

Table D.1. Ships at Berth Post-Inspection Requirements

Source Category	Equipment Project Option	Additional Requirements
Ships at Berth	Option (1) Grid-Based Shore Power	<ul style="list-style-type: none"> A ship must be plugged into shore power at the designated berth, with the engines turned off, and drawing power to demonstrate to the inspector that it is in proper working order. Verification that this project serves the intended berth.
	Option (2) Non-Grid- Based Shore Power	<ul style="list-style-type: none"> Ship must be plugged into shore power at the designated berth, with the engines turned off, and drawing power to demonstrate to the inspector that it is in proper working order. Verification that this project serves the intended berth(s).
	Option (3) Ship Emissions Capture and Control System	<ul style="list-style-type: none"> The fully operational system must be connected to a ship and complying with performance measures stated in the specification. Verification that this project serves the intended berth(s).

E. Recordkeeping Requirements

Equipment owners shall retain, at a minimum, all documents, invoices, and correspondence associated with the application, award, contract, purchase, installation, equipment operation (and if applicable, registration, insurance and warranty), and reporting for at least 2 years after the end of the equipment project contact term or 3 years after final payment, whichever is later. Records shall be readily available and accessible to the local agency, ARB, or ARB designee upon request for the purposes of ongoing evaluations or audits.

F. Reporting Requirements

Equipment owners shall be responsible for annual reporting to the local agency for the equipment project life. The equipment owner annual report shall include, but is not limited to:

1. Annual reporting for shore power (grid and non-grid-based power)

- Contact information (owner name, company, address, phone).
- Equipment description and type providing electrical power.

- Port and berth name(s)/identifier(s).
- Date of installation of equipment.
- Vessel type, name, and Lloyd's number of vessels utilizing berth.
- Total ship visits utilizing berth.
- Documentation of electricity usage at berth (for grid-based power).
- Power, in megawatts, supplied to the vessels (for non-grid-based power).
- Episodes of electrical service interruption by local utility company (for grid-based power).
- Date and description of any equipment failure that prevented a ship from using the shore-based power (for non-grid-based power).
- Summary of maintenance and inspections conducted.
- Signed certification statement that the bond-funded project was operated in accordance with the signed contract and that all information submitted is true and accurate.
- Project records must be retained for at least 2 years after contract expiration or 3 years after final project payment, whichever is later.
- Other information as requested by the local agency.
- Summary of source testing (for non-grid-based power).

2. Annual reporting for ship emissions capture and control system

- Contact information (owner name, company, address, phone).
- Description of ship emissions capture and control system.
- Port and berth name(s)/identifier(s).
- Date and location of equipment installation.
- Vessel type, name, and Lloyd's number of vessels utilizing the system.
- Total ship visits utilizing the system by berth.
- Power usage (kW-hr) to run the hood and source of power (grid vs. non-grid).
- Natural gas usage (if any) for heating SCR duct burner.
- Date and description of any equipment failure that prevented a ship from using the system to reduce emissions.
- Summary of maintenance, source testing and inspections conducted.
- Signed certification statement that the bond-funded project was operated in accordance with signed contract and that all information submitted is true and accurate.

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APPENDIX D Commercial Harbor Craft

A. Equipment Project Specifications

Commercial Harbor Craft

<p>Eligible Equipment</p>	<p>Existing commercial diesel harbor craft vessels involved in goods movement with: a home port located in a trade corridor, 2 years of operation in California waters, Tier 0 or Tier 1 diesel propulsion engine(s) for repower or replacement projects and Tier 2 or Tier 3 diesel propulsion engines for hybrid projects. Eligible vessel types include:</p> <ul style="list-style-type: none"> • Tugboats and towboats. • Crew and supply vessels. • Work boats. • Pilot vessels. • Commercial fishing boats with at least 700 operational hours per year. <p>These vessel types are defined in section 93118.5, title 17, chapter 1, subchapter 7.5, California Code of Regulations (d) Definitions.</p>
<p>General Requirements (applicable to all project options)</p>	<p>Equipment owner shall:</p> <ul style="list-style-type: none"> • Commit to 8 years of California home port operation in the trade corridors. • Scrap old engine or vessel (as applicable). • Agree to accept an electronic monitoring unit at any time during the project life. • Agree to equipment inspections. • Comply with record-keeping, reporting, and audit requirements. • Sign a legally binding contract with the local agency including project milestone and completion deadlines. • Demonstrate proof of insurance on upgraded or replaced equipment. • Properly maintain upgraded equipment in good operating condition and according to manufacturer's recommendations. • Certify that there are no outstanding ARB violations associated with the equipment or the owner.

Commercial Harbor Craft (cont.)

<p>Option (1) Repower/ Replacement of Tugboats/ Towboats, Crew and Supply Vessels</p> <p>Additional Requirements</p>	<p>Partial funding of up to the lower of 50% of the eligible cost or \$140/horsepower of the old engine to repower or replace an eligible tugboat, towboat, crew and supply vessel* equipped with a Tier 0 or Tier 1 propulsion engine with a Tier 2 or Tier 3 engine as described in the project options.</p> <p>Available project options:</p> <ol style="list-style-type: none"> 1. Repower an existing Tier 0 propulsion engine with a new engine meeting the latest emission standards (Tier 2 or Tier 3) and make necessary vessel modifications to accommodate the new engine. 2. Replace a vessel with an existing Tier 0 propulsion engine(s) with a new vessel powered by an engine meeting the latest emission standards (Tier 2 or Tier 3). 3. Repower an existing Tier 1 propulsion engine with a new engine meeting the Tier 3 emission standard and make necessary vessel modifications to accommodate the new engine. 4. Replace a vessel with an existing Tier 1 propulsion engine(s) with a new vessel powered by an engine(s) meeting the Tier 3 emission standard. <p>Eligible costs include purchase of replacement vessel (diesel or hybrid) or purchase and installation of a new engine or hybrid system including vessel modifications directly related to the new engine or system.</p> <p>Ineligible costs include out of service time (dry dock) costs, fuel, design, engineering, consulting, legal fees, license, registration, taxes, insurance, operation, maintenance and repair.</p> <p>*Note: if the Board does not adopt Rule amendments that require upgrades on existing crew and supply vessels, these vessels would be eligible for funding under Option 2.</p> <p>Program-funded engine repower and vessel replacement projects shall be operational (post inspection completed, except scrappage) at least 2 years prior to any regulatory requirement for that technology or level of emissions control.</p>
<p>Option (2) Repower/ Replacement of Other Vessels</p>	<p>Partial funding of up to the lower of 80% of the eligible cost or \$190/horsepower of the old engine to repower or replace an eligible other vessel equipped with a Tier 0 or Tier 1 propulsion engine with a Tier 2 or Tier 3 engine as described in the project options. Other vessel types may include work boats or pilot vessels involved in goods movement, and high use commercial fishing vessels.</p> <p>Available project options:</p> <ol style="list-style-type: none"> 1. Repower an existing Tier 0 or Tier 1 propulsion engine with a new engine meeting the latest emission standards (Tier 2 or Tier 3) and make necessary vessel modifications to accommodate the new engine. 2. Replace a vessel with an existing Tier 0 or Tier 1 propulsion engine(s) with a new vessel powered by an engine(s) meeting the latest emission standards (Tier 2 or Tier 3). <p>Eligible costs include purchase of replacement vessel (diesel or hybrid) or purchase and installation of a new engine or hybrid system including vessel modifications directly related to the new engine or system.</p> <p>Ineligible costs include out of service time (dry dock) costs, fuel, design, engineering, consulting, legal fees, license, registration, taxes, insurance, operation, maintenance and repair.</p>

Commercial Harbor Craft (cont.)

<p>Option (3) Retrofit/ Replacement with Hybrid Power System</p>	<p>Partial funding of up to the lower of 80% of the eligible cost or \$100/horsepower of the old engine to add a hybrid power system that reduces PM and NOx emissions by 30% to retrofit or replace an eligible tugboat, towboat, or crew and supply vessel.</p> <p>Available project options:</p> <ol style="list-style-type: none"> 1. Retrofit a hybrid power system on an existing vessel with Tier 2 or Tier 3 propulsion engine(s) and make necessary vessel modifications to accommodate the new hybrid system. 2. Replace an existing vessel with a new vessel powered by a hybrid system that includes Tier 2 or Tier 3 propulsion engine(s). <p>Eligible costs include purchase of replacement vessel (diesel or hybrid) or purchase and installation of a new engine or hybrid system including vessel modifications directly related to the new engine or system.</p> <p>Ineligible costs include out of service time (dry dock) costs, fuel, design, engineering, consulting, legal fees, license, registration, taxes, insurance, operation, maintenance and repair.</p>
<p>Additional Requirements</p>	<ul style="list-style-type: none"> • An equipment owner may receive a grant to repower/replace a vessel and to add a hybrid power system on the same upgraded vessel. • The hybrid power system must include a manufacturer’s warranty for a minimum period of 8 years. • Project eligibility is subject to an ARB staff determination that a hybrid power system installed on a vessel with Tier 2 propulsion engines reduces PM and NOx emissions by at least 30% each, compared to a similar vessel with Tier 2 propulsion engines, the same operating hours, and a similar duty cycle, but without the hybrid system.
<p>Project Cost Assumptions</p>	<ul style="list-style-type: none"> • Total cost of a Tier 2 engine is estimated at \$230/hp. • Total cost of a Tier 3 engine is estimated at \$290/hp - \$350/hp. • Total cost to repower a vessel with a hybrid power system is estimated at \$300/hp - \$350/hp. The incremental cost of hybrid power system is estimated at \$60/hp - \$120/hp.

B. Major Milestones for Project Completion

- Equipment order.
- Dry dock scheduled.
- Equipment acquisition.
- Dry dock start date.
- Equipment installation complete.
- Submittal of invoice to local agency for reimbursement.

C. Application Information

Equipment owners shall provide the following information and documentation in addition to the requirements described in Chapter IV, and other information ARB or local agencies may request on the equipment project applications.

1. General information

- Organization/agency/company name.
- Mailing address.
- Primary contact name and phone number.
- Person with equipment contract signing authority (owner).
- Proof of identity of equipment owner.
- Business information.
 - Number of harbor craft.
 - Number of employees.

2. Current equipment and activity information

- Harbor craft data.
 - Harbor craft name, home port.
 - Harbor craft type (tug, tow, commercial fishing, etc.).
 - Vessel model year.
 - Engine data.
 - Number of propulsion engines.
 - Make, model, engine year, number of cylinders, and serial numbers for each.
 - Engine family.
 - Rated brake horsepower/total engine displacement.
 - Fuel type.
- Documentation of harbor craft ownership.
- Harbor craft documentation.
 - U.S. Coast Guard (USCG) documentation number, if applicable.
 - CA Department of Fish and Game (DFG) license number, if applicable.
 - IMO number, if applicable.
- Activity data for the past 2 years.
 - Vocation(s).
 - Percent operation within 24 nautical miles of the California coast.
 - Identification of the trade corridors in which the harbor craft routinely operated, specifically:
 - Bay Area trade corridor.
 - Central Valley trade corridor.
 - Los Angeles/Inland Empire trade corridor.
 - San Diego trade corridor.
 - Estimated average number of propulsion engine operating hours within 24 nautical miles of the California coast.
 - Annual hours of operation.
- Vocation and activity documentation for the past 2 years.
 - Documentation of percent operation within 24 nautical miles of the California coast may be required.

3. Proposed equipment project information

a) *Options (1) and (2): Repowers and replacements*

- Vessel type.
- Propulsion engine data.
 - Number new of engines and U.S.EPA “Tier 1” level.
 - Make, model year, number of cylinders by engine.
 - Engine horsepower and fuel type by engine.
- Documentation of all engine modifications planned as part of the repower project, including description of upgrades to exhaust systems, electronics, etc. (repower only).
- Itemized cost for each eligible expense (verifiable quote).
- Predicted vocation and activity data with new equipment.
 - Vocation.
 - Estimated percent operation within 24 nautical miles of the California coast.
 - Estimated average number of propulsion engine operating hours within 24 nautical miles of the California coast.
 - Annual hours of operation.
- Equipment project funding demonstration.
 - Program dollars requested.
 - Source and amounts of other funding (private, local, other State, federal).
 - Request for a direct payment to vendor (if applicable).
 - Total project cost (Program dollars requested plus other match funding).
 - Documentation of match funding availability.

b) *Option (3): Hybrid power system*

- Vessel type.
- Hybrid power system information.
 - Hybrid system make/model.
 - Horsepower of battery pack.
 - Fuel type and horsepower of hybrid system generators.
 - Propulsion engine data.
 - Number of engines.
 - Make, model year, number of cylinders by engine.
 - Engine horsepower and fuel type by engine.
- Documentation of all engine-related modifications planned as part of the repower project, including description of upgrades to such things as exhaust systems, electronics, etc.
- Itemized cost information for eligible expenses (verifiable quote).
- Predicted vocation and activity data with new equipment.
 - Vocation.
 - Estimated percent operation within 24 nautical miles of the California coast.
 - Estimated average of propulsion engine operating hours within 24 nautical miles of the California coast.

- Estimated percent of annual operation in each one of the four trade corridors.
- Estimated annual average number of hybrid system operating hours.
- Estimated annual hours of vessel operation.
- Equipment project funding demonstration.
 - Program dollars requested.
 - Source and amounts of other funding (private, local, other State, federal).
 - Request for a direct payment to vendor (if applicable).
 - Total project cost (Program dollars requested plus other match funding).
 - Documentation of match funding availability.

D. Scrap Requirements

In addition to the general scrappage requirements listed in Chapter IV., specific requirements for repower and replacement projects are shown below:

Table D.1 Harbor Craft Equipment Project Scrap Requirements

Source Category	Equipment Project Option	Additional Requirements
Harbor Craft	Options (1), (2), & (3) (specific to repower)	<ul style="list-style-type: none"> ● The local agency shall ensure the impound and transport of the old engine to the licensed dismantler within 30 calendar days of the new engine being placed into operation. ● The licensed dismantler must dismantle and destroy the old engine within 60 calendar days of receipt. The engine destruction must be done in accordance with these Guidelines. ● The licensed dismantler shall provide proof of scrappage to the local agency within 10 calendar days of the destruction of the engine. ● The engine block shall be punctured and destroyed in such a manner to eliminate the possibility of future operation. ● The local agency or its designee must provide digital photographs, described below, showing the destruction of the old engine. The local agency must receive these photos within 10 calendar days of the engine being scrapped. ● The following digital photos must be taken and labeled for the project file: <ol style="list-style-type: none"> 1. View of the vessel with the identification tags visible. 2. Serial number printed either on the tag inside the marine vessel showing the ID and USCG registration (if applicable). 3. Engine serial number either stamped on the block or on the tag. 4. Destroyed engine block either.

Table D.1 Harbor Craft Equipment Project Scrap Requirements (cont.)

Source Category	Equipment Project Option	Additional Requirements
Harbor Craft	Options (1), (2), & (3) (additional requirements for replacements)	<p>In addition to the scrap requirements listed above for engine repower projects:</p> <ul style="list-style-type: none"> • The local agency shall ensure the impound and transport of the old vessel to the dismantler within 30 calendar days of the new vessel being placed into operation. • The licensed dismantler must dismantle and destroy the old vessel within 60 calendar days of receipt of the old vessel. The destruction must be done in accordance with these Guidelines. • The vessel shall be physically destroyed in such a manner to eliminate the possibility of future operation. • Include at least one additional digital photo which documents the destruction of the vessel along with the photos listed above. • The licensed dismantler shall provide proof of scrappage to the local agency within 10 calendar days of the destruction of the old vessel.

E. Post-Inspection

- For harbor craft repower equipment projects, the post-inspection shall occur within 60 calendar days of the owner receiving the fully operational equipment.
- For harbor craft replacement equipment projects, the post-inspection shall occur within 90 calendar days of owner receiving the fully operational equipment.

Table D.2. Harbor Craft Post-Inspection Requirements

Source Category	Equipment Project Option	Additional Requirements
Commercial Harbor Craft	Options (1), (2), & (3) Repower	<ul style="list-style-type: none"> • Inspection shall occur within 90 calendar days of equipment owner receiving the fully operational equipment. • For all repowered main engines, document the family name, make, model year, serial number listed, U.S. EPA marine Tier level, and the fuel type of the new engine(s). • Start and end dates of dry dock time. • Name and contact information of company that performed the engine repower.
	Options (1), (2), & (3) Replacement	<ul style="list-style-type: none"> • Inspection shall occur within 90 calendar days of equipment owner receiving the fully operational replacement equipment. • For all vessel replacements, document the Family name, make, model year, serial number listed, U.S. EPA marine tier level, and the fuel type of the engine(s) in the new vessel. • Name and contact information of company that replaced the vessel.

F. Recordkeeping Requirements

Equipment owners shall retain, at a minimum, all documents, invoices, and correspondence associated with the application, award, contract, purchase, installation, equipment operation (and if applicable, registration, insurance and warranty), and reporting for at least 2 years after the end of the equipment project contact term or 3 years after final payment, whichever is later. Records shall be readily available and accessible to the local agency, ARB, or ARB designee upon request for the purposes of ongoing evaluations or audits.

G. Reporting Requirements

Equipment owners shall be responsible for annual reporting to the local agency for the project life. The equipment owner annual report shall include, but is not limited to:

- Contact information (owner name, company, address, phone).
- Home port.
- Vessel type.
- Vessel identifier, such as USCG, DFG Call Sign, Maritime Mobile Service Identity, or other relevant vessel identifier.
- Engine make, model, year, serial number and engine horsepower.
- Annual engine hours of operation within 24 nautical hours.
- For hybrid options, annual hybrid power system hours of operation.
- Percent of operation within 24 nautical miles.
- Percentage of annual travel in each trade corridor:
 - Bay Area trade corridor.
 - Central Valley trade corridor.
 - Los Angeles/Inland Empire trade corridor.
 - San Diego trade corridor.
- Other information as requested by the local agency.
- Summary of maintenance and inspections conducted.
- Signed certification statement that the bond-funded equipment was installed on or replaced the vessel for which it was approved and that all information submitted to the local agency is true and accurate.

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APPENDIX E Cargo Handling Equipment

A. Equipment Project Specifications

Cargo-Handling Equipment

<p>Eligible Equipment</p>	<p>Existing diesel-powered rubber-tired gantry (RTG) crane, or diesel-powered yard truck with MY2004-2006 off-road diesel engine, operating at a seaport or intermodal rail yard in a trade corridor.</p>
<p>General Requirements (applicable to all project options)</p>	<ul style="list-style-type: none"> • Agree to accept an on-board electronic monitoring unit at any time during the project life. • Agree to equipment inspections. • Comply with record-keeping, reporting, and audit requirements. • Sign a legally binding contract with the local agency including project milestone and completion deadlines. • Properly maintain upgraded equipment in good operating condition and according to manufacturer's recommendations. • Demonstrate proof of equipment warranty for the project life and insurance on upgraded equipment. •
<p>Option (1) Repower RTG Crane w/ Electric or Zero-Emission Power System</p> <p>Requirements</p>	<p>Partial funding of up to the lower of 50% of the eligible cost or \$100,000/crane to repower the diesel engine with an electric or zero-emission power system.</p> <p>Eligible costs include purchase and installation of a new electric engine and necessary parts for an existing RTG crane including directly related vehicle modifications.</p> <p>Ineligible costs include design, engineering, consulting, legal fees, license, registration, taxes, insurance, operation, maintenance and repair.</p> <p>Equipment owner shall:</p> <ul style="list-style-type: none"> • Commit to 15 years of 100% California operation in port or intermodal rail yard service in trade corridors. • Agree to accept an on-board electronic monitoring unit at any time during the project life. • Agree to equipment inspections. • Comply with record-keeping, reporting, and audit requirements. • Sign a legally binding contract with the local agency including project milestone and completion deadlines. • Properly maintain upgraded equipment in good operating condition and according to manufacturer's recommendations. • Demonstrate proof of equipment warranty for the project life and insurance on upgraded equipment. • Comply with all local permitting requirements. • Certify that there are no outstanding ARB violations associated with the equipment or the owner.

B. Major Milestones for Project Completion

- Equipment order.
- Equipment acquisition/installation.
- Submittal of invoice to local agency for reimbursement.

C. Application Information

Equipment owners shall provide the following information and documentation in addition to the requirements described in Chapter IV and other information ARB or local agencies may request on the equipment project applications.

The following sections apply to all equipment project options.

1. General information

- Organization/agency/company name.
- Mailing address.
- Primary contact name and phone number.
- Person with equipment contract signing authority (owner).
- Proof of identity of equipment owner.
- Number of pieces of diesel cargo handling equipment.
- Business information.
 - Fleet size.
 - Number of employees.

2. Current equipment and activity information

a) *Electric or zero-emission power system for rubber-tired gantry crane*

- Rubber-tired gantry crane (RTG) data.
 - Port or rail yard where RTG crane operates.
 - Specific location.
 - Equipment make, model, model year.
 - RTG crane identification number or VIN.
 - Engine data (per engine).
 - Engine make, model, engine year.
 - Serial number.
 - Horsepower and fuel type.
- Activity data for the past 2 years.
 - Annual hours of operation.

Additional documentation may be requested by the local agency to verify information reported on the application.

b) Electric or zero-emissions yard truck

- Yard truck data.
 - Port or rail yard where yard truck operates.
 - Truck make, model, model year.
 - Yard truck identification number or VIN.
 - Diesel engine data (per engine).
 - Engine make, model, engine year.
 - Serial number.
 - Horsepower and fuel type.
- Activity data for the past 2 years.
 - Annual hours of operation.
 - Identify the trade corridors in which the equipment is routinely operated.

3. Proposed equipment project information

a) Electric or zero-emission power system

- Electric power system data.
 - Equipment make, model, model year.
 - Equipment power rating.
- Itemized cost information for eligible expenses (verifiable quote).
- Predicted activity data with new equipment.
 - Estimated annual hours of operation.
- Equipment project funding demonstration.
 - Program dollars requested.
 - Funding sources and amounts of other funding (private, local, other State, federal).
 - Total project cost (Program dollars requested plus other match funding).
 - Documentation of match funding availability.

b) Electric or zero-emission yard truck

- Electric yard truck data.
 - Truck make, model, model year.
 - Equipment power rating.
- Itemized cost for each eligible expense (verifiable quote).
- Predicted activity data with new equipment.
 - Estimated annual hours of operation.
- Equipment project funding demonstration.
 - Total project cost.
 - Program dollars requested.
 - Source and amounts of other funding (private, local, other State, federal).
 - Request for a direct payment to vendor (if applicable).
 - Total project cost (Program dollars requested plus other match funding).
 - Documentation of match funding availability.

D. Scrappage

Table E.1. Cargo Handling Equipment Project Scrap Requirements

Source Category	Equipment Project Option	Additional Requirements
Cargo Handling Equipment	Option (1) Repower RTG Crane	<ul style="list-style-type: none"> • The local agency shall ensure the impound and transport of the old engine to the licensed dismantler within 30 calendar days of the new power system being placed into operation. • The licensed dismantler must dismantle and destroy the old engine within 60 calendar days of receipt. The engine destruction must be done in accordance with these Guidelines. • The engine block shall be punctured and destroyed in such a manner to eliminate the possibility of future operation. • The licensed dismantler shall provide proof of scrappage to the local agency within 10 calendar days of the destruction of the old engine. • The local agency or its designee must provide digital photographs, described below, showing the destruction of the old engine. The local agency must receive these photos within 10 calendar days of the engine being scrapped. • The following digital photos must be taken and labeled for the project file: <ol style="list-style-type: none"> 1. Existing RTG crane or yard truck (as applicable) view from front angle. 2. Engine serial number either stamped on the block or on the tag. 3. Destroyed engine block.

Table E.1. Cargo Handling Equipment Project Scrap Requirements (cont.)

Source Category	Equipment Project Option	Additional Requirements
Cargo Handling Equipment	Option (2) Replace Yard Truck	<p>In addition to the requirements listed above for RTG crane repower projects:</p> <ul style="list-style-type: none"> • The local agency shall ensure the impound and transport of the old yard truck to the dismantler within 30 calendar days of the new vehicle being placed into operation. • The licensed dismantler must dismantle and destroy the old yard truck within 60 calendar days of receipt. The destruction must be done in accordance with these Guidelines. • Sever the old vehicle frame rails to ensure that the vehicle is rendered useless and to prevent repeated use. • Include at least one additional digital photo which documents the destruction of the vehicle along with the photos listed above. • The licensed dismantler shall provide proof of scrappage to the local agency within 10 calendar days of the destruction of the vehicle.

E. Post-Inspection

For cargo handling equipment projects, the post-inspection shall occur within 60 days of owner receipt of fully operational equipment.

Table E.2. Cargo Handling Equipment Post-Inspection Requirements

Source Category	Equipment Project Option	Additional Requirements
Cargo Handling Equipment	Option (1) Repower RTG Crane	<ul style="list-style-type: none"> Name of power system manufacturer. Serial number and month/year of power system manufacture. Inspection shall occur within 60 days of owner receipt of fully operational equipment.
	Option (2) Electric Yard Truck	<ul style="list-style-type: none"> Vehicle type. Vehicle identification number (VIN). Vehicle make, model, model year. Gross vehicle weight rating (GVWR). Fuel type.

F. Recordkeeping Requirements

Equipment owners shall retain, at a minimum, all documents, invoices, and correspondence associated with the application, award, contract, purchase, installation, equipment operation (and if applicable, registration, insurance and warranty), and reporting for at least 2 years after the end of the equipment project contact term or 3 years after final payment, whichever is later. Records shall be readily available and accessible to the local agency, ARB, or ARB designee upon request for the purposes of ongoing evaluations or audits.

G. Reporting Requirements

Equipment owners shall be responsible for annual reporting to the local agency for the project life. The equipment owner annual report shall include, but is not limited to:

- Contact information (owner name, company, address, phone).
- Date and location of installation of equipment.
- Equipment type and name of home port or rail yard.
- Electric power system or yard truck make, model, year, serial number and power rating.
- Annual hours of operation.
- Summary of maintenance and inspections conducted.

- Signed certification statement that the bond-funded technology was installed on the equipment for which it was approved, and that all information submitted to the local agency is true and accurate.
- Other information as requested by the local agency.

APPENDIX F

Equipment Project Specifications for FY2007-08 Funds

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A. Trucks Serving Ports and Intermodal Rail Yards

Equipment Project Specifications

Trucks Serving Ports and Intermodal Rail Yards

Eligible Equipment	<p>Class 8 (>33,000 lbs gross vehicle weight rating) heavy-duty diesel trucks used to move goods.</p> <p>Equipment owner must demonstrate:</p> <ul style="list-style-type: none"> • Continuous registration (California base-plated or International Registration Plan) in California for the past 2 years, <u>or-</u> • <u>Partial year registration - a pattern of monthly or seasonal registration or other approved documentation that establishes California operation over the past 2 years. A minimum of 10,000 vehicle miles traveled (VMT) per year during each of the past 2 years is required to be eligible for this option.</u> • At least 50 percent operation within trade corridor(s) for the past 2 years.
Ineligible Equipment	<ul style="list-style-type: none"> • Trucks subject to ARB's public and utility fleet rule. • Trucks subject to ARB's solid waste collection vehicle rule. • Trucks subject to ARB's diesel cargo handling equipment rule.
Option (1) Retrofit Requirements	<p>Partial funding of up to \$5,000/truck to retrofit an eligible MY2006 or older heavy duty diesel truck with an ARB verified Level 3 diesel particulate filter that reduces diesel PM by 85 percent or more.</p> <ul style="list-style-type: none"> • Program-funded diesel particulate filter shall be installed and operational at least 6 months prior to a regulatory requirement for that technology or level of emissions control. <p>Equipment owner shall:</p> <ul style="list-style-type: none"> • Commit to at least 4 2 years of 100% California-only operation and California base-plated registration. Dual plates, IRP, and any other out-of-state registrations are prohibited. • Commit to at least 4-<u>2</u> years of frequent port or inter-modal rail yard service (150+ visits/year). • Commit to at least 50% of travel in trade corridors for duration of contract term. • Agree to accept an on-board electronic monitoring unit at any time during the contract term. • Agree to equipment inspections. • Comply with record-keeping, reporting, and audit requirements. • Sign a legally binding contract with the local agency including project milestone and completion deadlines. • Properly maintain filter in good operating condition and according to manufacturer's recommendations. • Demonstrate proof of equipment warranty on filter. • Demonstrate that any mid-1990s engine subject to the software upgrades for diesel trucks (i.e. chip reflash) has completed the upgrade. • Certify that there are no outstanding ARB equipment violations associated with the equipment project application.

Trucks Serving Ports and Intermodal Rail Yards (continued)

<p>Option (2) Repower</p>	<p>The lower of 50% or \$20,000 to repower an eligible MY2003 or older heavy duty diesel truck with a new engine that meets MY2007 emission levels or lower and ARB's requirements for engine manufacturer diagnostics.</p>
<p>Requirements</p>	<ul style="list-style-type: none"> • Program-funded truck repower project shall be completed and operational at least 3 years prior to a regulatory requirement for that technology or level of emissions control. For independent owner operators, the equipment project shall be completed and operational at least 2 years prior to a regulatory requirement for that technology or level of emissions control. <p>Equipment owner shall:</p> <ul style="list-style-type: none"> • Commit to at least 85 years or 350,000 miles of 100% California-only operation and California base-plated registration. Dual plates, IRP, and any other out-of-state registrations are prohibited. • Commit to at least 4 years of frequent port or inter-modal rail yard service (150+ visits/year). • Commit to at least 50% of travel in trade corridors for duration of contract term. • Agree to accept an on-board electronic monitoring unit at any time during the contract term. • Agree to equipment inspections. • Scrap the old engine. • Comply with record-keeping, reporting, and audit requirements. • Sign a legally binding contract with the local agency including project milestone and completion deadlines. • Properly maintain new engine, emission controls, and diagnostics in good operating condition and according to manufacturer's recommendations. • Demonstrate proof of equipment warranty and comprehensive insurance on upgraded equipment. • Provide a copy of ARB Executive Order documenting that the new truck engine meets 2007 emission levels. • Certify that there are no outstanding ARB equipment violations associated with the equipment project application.
<p>Pro-rated Alternative</p>	<p>Equipment owners may opt for a pro-rated alternative consisting of duplicate requirements, except that the Program will pay the lower of 25% or \$10,000 for a 4 year commitment of 100% California only operation and California base plated registration.</p>

Trucks Serving Ports and Intermodal Rail Yards (continued)

Option (3) Replacement	Partial funding of up to \$50,000/truck to replace an eligible MY2003 or older heavy duty diesel truck with a diesel or alternative fuel truck meeting MY2007 emission levels or lower.
Requirements	<ul style="list-style-type: none"> • Program-funded truck replacement project shall be completed and operational at least 3 years prior to a regulatory requirement for a truck meeting MY2007 emission standards. For independent owner operators, the new truck must be operational at least 2 years prior to a regulatory requirement for a truck meeting MY2007 emission standards. <p>Equipment owner shall:</p> <ul style="list-style-type: none"> • Commit to at least 8-5 years or 350,000 miles of 100% California-only operation and California base-plated registration. Dual plates, IRP, and any other out-of-state registrations are prohibited. • Commit to at least 4 years of frequent port or intermodal rail yard service (150+ visits/year). • Commit to at least 50% of travel in trade corridors for duration of contract term. • Agree to accept an on-board electronic monitoring unit at any time during the contract term. • Agree to equipment inspections. • Scrap the old truck. • Comply with record-keeping, reporting, and audit requirements. • Sign a legally binding contract with the local agency including project milestone and completion deadlines. Under a lease program, the owner and lessee must sign the contract. • Properly maintain new truck in good operating condition and according to manufacturer's recommendations. • Demonstrate proof of equipment warranty and comprehensive insurance on new truck. • Provide copy of ARB Executive Order documenting that the new truck engine meets 2007 emission levels. • Certify that there are no outstanding ARB equipment violations associated with the equipment project application.
Pro-rated Alternative	Equipment owners may opt for a pro-rated alternative consisting of duplicate requirements, except that the Program will pay up to \$25,000 for a 4 year commitment of 100% California-only operation and California base-plated registration.
Project Cost Assumptions	<p>Option (1): Total cost of a diesel particulate filter is ~\$10,000</p> <p>Option (2): Total average cost of a repower is ~\$40,000</p> <p>Options (3) & (4): Total cost of a new MY2007 truck is ~\$100,000 (diesel) to ~\$180,000 (natural gas)</p>

B. Other Heavy Duty Diesel Trucks

Equipment Project Specifications

Other Heavy Duty Diesel Trucks

<p>Eligible Equipment</p>	<p>Class 8 (>33,000 lbs gross vehicle weight rating) heavy-duty diesel trucks used to move goods.</p> <p>Equipment owner must demonstrate:</p> <ul style="list-style-type: none"> • Continuous registration (California base-plated or International Registration Plan) in California for the past 2 years, <u>or-</u> • <u>Partial year registration - a pattern of monthly or seasonal registration or other approved documentation that establishes California operation over the past 2 years. A minimum of 10,000 vehicle miles traveled (VMT) per year during each of the past 2 years is required to be eligible for this option.</u> • At least 50 percent operation within trade corridor(s) for the past 2 years.
<p>Ineligible Equipment</p>	<ul style="list-style-type: none"> • Trucks subject to ARB's public and utility fleet rule. • Trucks subject to ARB's solid waste collection vehicle rule. • Trucks subject to ARB's diesel cargo handling equipment rule. • A truck funded via a contract executed after adoption of the <i>Regulation to Reduce Emissions of Diesel Particulate Matter, Oxides of Nitrogen and Other Criteria Pollutants, and Greenhouse Gases from In-Use Heavy-Duty Diesel-Fueled Vehicles</i> must comply with the additional restrictions on fleet averaging included in these Guidelines.

<p>Option (1) Retrofit</p> <p>Requirements</p>	<p>Partial funding of up to \$5,000/truck to retrofit an eligible MY2006 or older heavy duty diesel truck with an ARB verified Level 3 diesel particulate filter that reduces diesel PM by 85 percent or more.</p> <ul style="list-style-type: none"> • Program-funded diesel particulate filter shall be installed and operational at least 6 months prior to a regulatory requirement for that level of emissions control under the best available control technology provisions of any adopted rule for in-use trucks. In this 6 month time period, a truck funded under this Program is not eligible to be included in any fleet averaging. <p>Equipment owner shall:</p> <ul style="list-style-type: none"> • Commit to at least <u>4</u> years of 100% California-only operation and California base-plated registration. Dual plates, IRP, and any other out-of-state registrations are prohibited. • Commit to at least 50% of travel in trade corridors for duration of contract term. • Agree to accept an on-board electronic monitoring unit at any time during the contract term. • Agree to equipment inspections. • Comply with record-keeping, reporting, and audit requirements. • Sign a legally binding contract with the local agency including project milestone and completion deadlines. • Properly maintain filter in good operating condition and according to manufacturer's recommendations. • Demonstrate proof of equipment warranty on filter. • Demonstrate that any mid-1990s engine subject to the software upgrades for diesel trucks (i.e. chip reflash) has completed the upgrade. • Certify that there are no outstanding ARB equipment violations associated with the equipment project application.
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Other Heavy Duty Diesel Trucks (continued)

<p>Option (2) Repower</p>	<p>The lower of 50% or \$20,000 to repower an eligible MY2003 or older heavy duty diesel truck with a new engine that meets MY2007 emission levels or lower and ARB's requirements for engine manufacturer diagnostics.</p>
<p>Requirements</p>	<ul style="list-style-type: none"> • Program-funded truck repower projects shall be completed and operational at least 3 years prior to a regulatory requirement for that level of emissions control under the best available control technology provisions of any adopted rule for in-use trucks. In this 3 year period, a truck funded under this Program is not eligible to be included in any fleet averaging. For independent owner operators and owners of all eligible MY1997 or older trucks, the equipment project shall be completed and operational at least 2 years prior to a regulatory requirement for that level of emissions control under the best available control technology provisions of any adopted rule for in-use trucks. <p>Equipment owner shall:</p> <ul style="list-style-type: none"> • Commit to at least 85 years or 500,000 miles of 100% California-only operation and California base-plated registration. Dual plates, IRP, and any other out-of-state registrations are prohibited. • Commit to at least 50% of travel in trade corridors for duration of contract term. • Agree to accept an on-board electronic monitoring unit at any time during the contract term. • Agree to equipment inspections. • Scrap the old engine. • Comply with record-keeping, reporting, and audit requirements • Sign a legally binding contract with the local agency including project milestone and completion deadlines. • Properly maintain new engine, emission controls, and diagnostics in good operating condition and according to manufacturer's recommendations. • Demonstrate proof of equipment warranty and comprehensive insurance on upgraded equipment. • Provide copy of ARB Executive Order documenting that the new truck engine meets 2007 emission levels. • Certify that there are no outstanding ARB equipment violations associated with the equipment project application.
<p>Pro-rated Alternative</p>	<p>Equipment owners may opt for a pro-rated alternative consisting of duplicate requirements, except that the Program will pay the lower of 25% or \$10,000 for a 4 year commitment of 100% California-only operation and California base-plated registration.</p>

Other Heavy Duty Diesel Trucks (continued)

<p>Option (3) Replacement</p>	<p>Partial funding of up to \$50,000/truck to replace an eligible MY2003 or older heavy duty diesel truck with a diesel or alternative fuel truck meeting MY2007 emission levels or lower.</p>
<p>Requirements</p>	<ul style="list-style-type: none"> • Program-funded truck replacement projects shall be completed and operational at least 3 years prior to a regulatory requirement for that level of emissions control under the best available control technology provisions of any adopted rule for in-use trucks. In this 3 year period, a truck funded under this Program is not eligible to be included in any fleet averaging. For independent owner operators and owners of all eligible MY1997 or older trucks, the equipment project shall be completed and operational at least 2 years prior to a regulatory requirement for that level of emissions control under the best available control technology provisions of any adopted rule for in-use trucks. <p>Equipment owner shall:</p> <ul style="list-style-type: none"> • Commit to at least 85 years or 500,000 miles of 100% California-only operation and California base-plated registration. Dual plates, IRP, and any other out-of-state registrations are prohibited. • Commit to at least 50% of travel in trade corridors for duration of contract term. • Agree to accept an on-board electronic monitoring unit at any time during the contract term. • Agree to equipment inspections. • Scrap the old truck. • Comply with record-keeping, reporting, and audit requirements • Sign a legally binding contract with the local agency including project milestone and completion deadlines. Under a lease program, the owner and lessee must sign the contract. • Properly maintain new truck in good operating condition and according to manufacturer's recommendations. • Demonstrate proof of equipment warranty and comprehensive insurance on new truck. • Provide copy of ARB Executive Order documenting that the new truck engine meets 2007 emission levels. • Certify that there are no outstanding ARB equipment violations associated with the equipment project application.
<p>Pro-rated Alternative</p>	<p>Equipment owners may opt for a pro-rated alternative consisting of duplicate requirements, except that the Program will pay up to \$25,000 for a 4 year commitment of 100% California-only operation and California base-plated registration.</p>

Other Heavy Duty Diesel Trucks (continued)

<p>Option (4) Three-Way Truck Transactions</p>	
<p>Additional Requirements for Eligible Equipment</p>	<p>Truck A: MY2003-2006 heavy duty diesel truck Truck B: MY1990 or older heavy duty diesel truck</p>
<p>Option (4) Three-Way Truck Transactions</p> <p>Requirements</p>	<p>Partial funding of up to \$50,000/transaction to:</p> <ol style="list-style-type: none"> 1. Replace an eligible MY2003-2006 truck (Truck A) with a diesel or alternative fuel truck (Truck C) meeting MY2007 emissions levels or lower; and 2. Equip Truck A with an ARB-verified Level 3 diesel particulate filter that reduces diesel PM by 85 percent or more; and 3. Scrap a MY1990 or older diesel truck (Truck B) and replace with Truck A. <ul style="list-style-type: none"> • Program-funded three-way truck transaction shall be completed and the new truck operational at least 2 years prior to a regulatory requirement for a truck meeting MY2007 emission standards under the best available control technology provisions of any adopted rule for in-use trucks. In this 2 year period, a truck funded under this Program is not eligible to be included in any fleet averaging. If the original owner of Truck A and new owner of Truck C is an independent owner operator, Truck C must be operational at least 2 years prior to a regulatory requirement for a truck meeting MY2007 emission standards. • Truck A shall be equipped with a diesel particulate filter at least six months prior to a regulatory requirement for a Level 3 PM device under the best available control technology provisions of any adopted rule for in-use trucks. <p>Original owner of Truck A and new owner of new Truck C shall:</p> <ul style="list-style-type: none"> • Equip Truck A with a Level 3 diesel particulate filter and transfer ownership (if applicable) to the owner of old Truck B. • On Truck C, commit to at least 85 years or 500,000 miles of 100% California-only operation and California base-plated registration. Dual plates, IRP, and any other out-of-state registrations are prohibited. • On Truck C, commit to at least 50% of travel in trade corridors for duration of contract term. • Agree to accept an on-board electronic monitoring unit at any time during the contract term. • Agree to equipment inspections. • Comply with record-keeping, reporting, and audit requirements. • Sign a legally binding contract with the local agency including project milestone and completion deadlines. • Properly maintain new truck in good operating condition and according to manufacturer's recommendations. • Demonstrate proof of equipment warranty and comprehensive insurance on new truck. • Provide copy of ARB Executive Order documenting that Truck C engine meets 2007 emission levels, and the Truck A is certified for sale in California. • Certify that there are no outstanding ARB equipment violations associated with any of the trucks involved in the equipment project.

Other Heavy Duty Diesel Trucks (continued)

<p>Option (4) Three-Way Truck Transactions</p> <p>Requirements (continued)</p>	<p>Original owner of old Truck B and new owner of retrofit Truck A shall:</p> <ul style="list-style-type: none"> • Scrap Truck B. • On Truck A, commit to at least 4 years of 100% California-only operation and California base-plated registration. Dual plates, IRP, and any other out-of-state registrations are prohibited. • On Truck A, commit to at least 50% of travel in trade corridors for duration of contract term. • Agree to equipment inspections. • Comply with record-keeping, reporting, and audit requirements. • Sign a legally binding contract with the local agency including project milestone and completion deadlines. • Properly maintain filter in good operating condition and according to manufacturer's recommendations. • Demonstrate proof of equipment warranty on filter. • Certify that there are no outstanding ARB equipment violations associated with any of the trucks involved in the equipment project.
<p>Project Cost Assumptions</p>	<p>Option (1): Total cost of a diesel particulate filter is ~\$10,000. Option (2): Total average cost of a repower project is ~\$40,000. Option (3) & (4): Total cost of a new MY2007 truck is ~\$100,000 (diesel) to ~\$180,000 (natural gas).</p>

Locomotives (continued)

Option (2): Line-Haul Locomotive	Partial funding for the lower of 50% or \$1 million/locomotive to replace or rebuild an uncontrolled, Tier 0 or Tier 1 line-haul locomotive with a new Tier 2 or lower-emission engine. Eligible locomotive costs include a new chassis, a new or rebuilt engine, and mechanical/electrical systems components necessary for safe operation.
Requirements	<p>Equipment owner shall:</p> <ul style="list-style-type: none"> • Commit to 15 years of 100% California-only operation. This new intrastate line-haul locomotive shall use California ARB diesel fuel. Periodic out-of-state maintenance may be permitted if outlined in the contract between the local agency and equipment owner. • Commit to at least 50% of operation in trade corridors for duration of contract term. • Scrap or ban old engine/locomotive from California operation. • Install an active GPS unit on both old (if not scrapped) and new equipment, fund data collection, and report location data. • Agree to equipment inspections. • Comply with record-keeping, reporting, and audit requirements. • Sign a legally binding contract with the local agency including project milestone and completion deadlines. • Properly maintain upgraded equipment in good operating condition and according to manufacturer's recommendations. • Demonstrate proof of equipment warranty and comprehensive insurance on upgraded equipment. • (For UP and BNSF) Demonstrate how the railroad intends to comply with the 1998 agreement for the South Coast Air Basin by submitting a compliance plan to ARB prior to application for bond funding in the Los Angeles/Inland Empire corridor.
Project Cost Assumptions	<ul style="list-style-type: none"> • Estimated total cost of new switcher generator-set is ~\$1.5 million. • Estimated total cost of an eligible Tier 2 locomotive is ~\$2.0-2.5 million.
Excluded Funding Components	<ul style="list-style-type: none"> • Auto start/stop devices required by regulation or agreements. • GPS units and monitoring and reporting costs.

D. Shore Power

Equipment Project Specifications

Shore Power

Eligible Equipment	Existing cargo ship berth or existing cargo ship terminal at a seaport located in a trade corridor.
Option (1) Grid-Based Power Requirements	<p>The lower of \$2.5 million/berth or 50% of the covered shore-side costs of installing permanent, grid-based electrical power at a cargo ship berth.</p> <ul style="list-style-type: none"> • Program-funded grid-based shore power shall be installed and in operation at least 2 years prior to a regulatory requirement for that technology or level of emissions control. <p>Equipment owner shall:</p> <ul style="list-style-type: none"> • Commit to at least 20 years of the use of grid-based shore power at the berth at the following levels or greater: <ul style="list-style-type: none"> ○ 25 percent of ship visits in 2011-2013. ○ 60 percent of the ship visits in 2014-2016. ○ 70 percent of the ship visits in 2017-2019. ○ 90 percent of the ship visits in 2020 and beyond. • Agree to equipment inspections that include demonstrated operability with a cargo ship fully powered by shore-based electrical power. • Comply with record-keeping, reporting, and audit requirements. • Sign a legally binding contract with the local agency including project milestone and completion deadlines. • Comply with all permitting requirements.

Shore Power (continued)

<p>Option (2) Non-grid based power</p>	<p>Partial funding of up to \$200,000 per megawatt of the covered costs of an electricity generating unit that provides power at a cargo ship berth or multiple berths. This unit can be portable or fixed on the terminal. Only zero emission units (e.g., fuel cell, solar), or natural gas engines equipped with selective catalytic reduction to control NOx emissions are eligible.</p>
<p>Requirements</p>	<ul style="list-style-type: none"> • Program-funded non grid-based shore power shall be installed and in operation by January 1, 2010. <p>Equipment owner shall:</p> <ul style="list-style-type: none"> • Commit to 7 years of 100% California operation at the following levels or greater: <ul style="list-style-type: none"> ○ 1,000 hours per year in 2010-2011. ○ 2,000 hours per year in 2012-2013. ○ 3,000 hours per year in 2014 and beyond. • Agree to equipment inspections that include demonstrated operability with a cargo ship fully powered by shore-based electrical power supplied by the electricity generating unit. • Comply with record-keeping, reporting, and audit requirements. • Sign a legally binding contract with the local agency including project milestone and completion deadlines. • Properly maintain equipment in good operating condition and according to manufacturer's recommendations. • Demonstrate proof of equipment warranty. • Comply with all local permitting requirements. • Perform source testing to measure emissions from the unit every 1,000 hours of operation, according to the source test requirements contained in ARB's shore power regulation.
<p>Pro-rated Alternative</p>	<p>Equipment owners may opt for a pro-rated alternative consisting of duplicate requirements, except that the Program will pay up to \$140,000 per megawatt for a 5 year commitment to use non-grid based shore power in 100% California operation.</p>
<p>Project Cost Assumptions</p>	<ul style="list-style-type: none"> • Total shoreside cost of equipping a berth with permanent grid-based electrical power is ~\$5.0 million/berth; some ports may incur additional costs to bring new/additional power capacity to the port. • Total cost of distributed generation power is anticipated to be \$4.0 million/ 2 MW unit. • Shoreside modifications will cost ~\$1 million/ship.
<p>Excluded Funding Components</p>	<ul style="list-style-type: none"> • Providing additional electrical power to the port. • Construction and protection of infrastructure (e.g., natural gas lines) used to supply fuel for non-grid based electrical generation. • Shoreside modifications to accept shore-based electrical power.

E. Commercial Harbor Craft

Equipment Project Specifications

Commercial Harbor Craft

Eligible Equipment	<p>Existing commercial diesel harbor craft vessels involved in freight movement operations with: a home port located in a trade corridor, 2 years of operation in California waters, and uncontrolled (Tier 0) diesel propulsion engine(s). Eligible vessel types include:</p> <ul style="list-style-type: none"> • Tugboats and towboats. • Work, pilot, crew and supply boats. • Commercial fishing boats with at least 700 operational hours per year.
<p>Option (1) Replacement/ repower of tugs/tows</p> <p>Requirements</p> <p>Pro-rated Alternative</p>	<p>or repowers on tugs and tows, the lower of 50% of total cost or \$135/horsepower of the old engine to replace a Tier 0 propulsion engine with a new model engine meeting latest emission standards (Tier 2 or lower emissions) and make necessary vessel modifications to accommodate the new engine. For replacements of tugs and tows, the lower of 50% of total cost or \$135/horsepower of the engine in the old vessel to replace a vessel with a Tier 0 propulsion engine with a new vessel powered by an engine meeting latest emission standards (Tier 2 or lower emissions).</p> <ul style="list-style-type: none"> • Program-funded engine repowers and replacements for tugboats and towboats shall be in operation at least 2 years prior to a regulatory requirement for that technology or level of emissions control. <p>Equipment owner shall:</p> <ul style="list-style-type: none"> • Commit to 15 years of California home port operation in the trade corridors. • Scrap old engine or vessel (as applicable). • Agree to accept an electronic monitoring unit at any time during the contract term. • Agree to equipment inspections. • Comply with record-keeping, reporting, and audit requirements. • Sign a legally binding contract with the local agency including project milestone and completion deadlines. • Demonstrate proof of comprehensive insurance on upgraded equipment. • Properly maintain upgraded equipment in good operating condition and according to manufacturer's recommendations. • Certify that there are no outstanding ARB equipment violations associated with the equipment project application. <p>Equipment owner may opt for a pro-rated alternative consisting of duplicate requirements, except that the Program will pay up to half of the Program funding level described above for a 7 year commitment of California home port operation in the trade corridors.</p>

Harbor Craft (continued)

Option (2) Replacement/ repower of other vessels	Other vessel types may include: work, pilot, crew, or supply boats involved in freight movement operations; and high use commercial fishing vessels. For repowers of other vessels, the lower of 80% or \$215/horsepower of the old engine to replace a Tier 0 propulsion engine with a new model meeting latest emission standards (Tier 2 or better) and make necessary vessel modifications to accommodate the new engine. For replacements of other vessels, the lower of 80% or \$215/horsepower of the engine in the old vessel to replace a vessel with a Tier 0 propulsion engine with a new vessel powered by an engine meeting latest emission standards (Tier 2 or lower emissions)
Requirements	Equipment owner shall: <ul style="list-style-type: none"> • Commit to 10 years of 100% California home port operation in trade corridors. • Scrap old engine or vessel (as applicable). • Agree to accept an electronic monitoring unit at any time during the contract term. • Agree to equipment inspections. • Comply with record-keeping, reporting, and audit requirements. • Sign a legally binding contract with the local agency including project milestone and completion deadlines. • Demonstrate proof of comprehensive insurance on upgraded equipment. • Properly maintain upgraded equipment in good operating condition and according to manufacturer's recommendations. • Certify that there are no outstanding ARB equipment violations associated with the equipment project application.
Pro-rated Alternative	Equipment owner may opt for a pro-rated alternative consisting of duplicate requirements, except that the Program will pay up to half of the Program funding level described above for a 5 year commitment of California home port operation in the trade corridors.
Project Cost Assumptions	<ul style="list-style-type: none"> • Total cost of a Tier 2 engine is estimated at \$270/horsepower.
Excluded Funding Components	<ul style="list-style-type: none"> • Out of service time (dry dock) costs.

F. Cargo Handling Equipment

Equipment Project Specifications

Cargo-Handling Equipment

Eligible Equipment	Existing diesel-powered rubber-tired gantry crane with a Tier 4 engine or Level 3 verified diesel emission control device operating at a seaport or intermodal rail yard in a trade corridor. To meet this eligibility requirement, equipment owners may propose to upgrade existing cranes concurrent with the installation of a Program-funded energy storage system. No Program funds shall be used to upgrade existing cranes to meet the eligibility requirements under this Program.
Option (1) Energy Storage System	The lower of 50% of the total project cost or \$160,000 per crane for purchase and retrofit of an energy storage system that ARB has verified to Level 1 (25 percent PM control) or higher.
Requirements	<p>Equipment owner shall:</p> <ul style="list-style-type: none"> • Commit to 15 years of 100% California operation in port or intermodal rail yard service in trade corridors. • Agree to accept an on-board electronic monitoring unit at any time during the contract term. • Agree to equipment inspections. • Comply with record-keeping, reporting, and audit requirements. • Sign a legally binding contract with the local agency including project milestone and completion deadlines. • Properly maintain upgraded equipment in good operating condition and according to manufacturer's recommendations. • Demonstrate proof of equipment warranty and comprehensive insurance on upgraded equipment. • Comply with all local permitting requirements. • Not use the energy storage system to comply with ARB's rule for diesel cargo handling equipment. • Certify that there are no outstanding ARB equipment violations associated with the equipment project application. • Demonstrate proof that the existing crane was upgraded to meet Program eligibility requirements if the improvements were done concurrent with the installation of a Program-funded energy storage system.
Pro-rated Alternative	Equipment owners may opt for a pro-rated alternative consisting of duplicate requirements, except that the Program will pay the lower of 25% or \$80,000 for a 10 year commitment of 100% California-only operation in port or intermodal rail yard service in trade corridors.
Project Cost Assumptions	<ul style="list-style-type: none"> • Total cost of energy storage unit is ~\$160,000-\$320,000 per crane.

G. Truck Stop/Distribution Center Electrification

Equipment Project Specifications

Truck Stop/Distribution Center Electrification

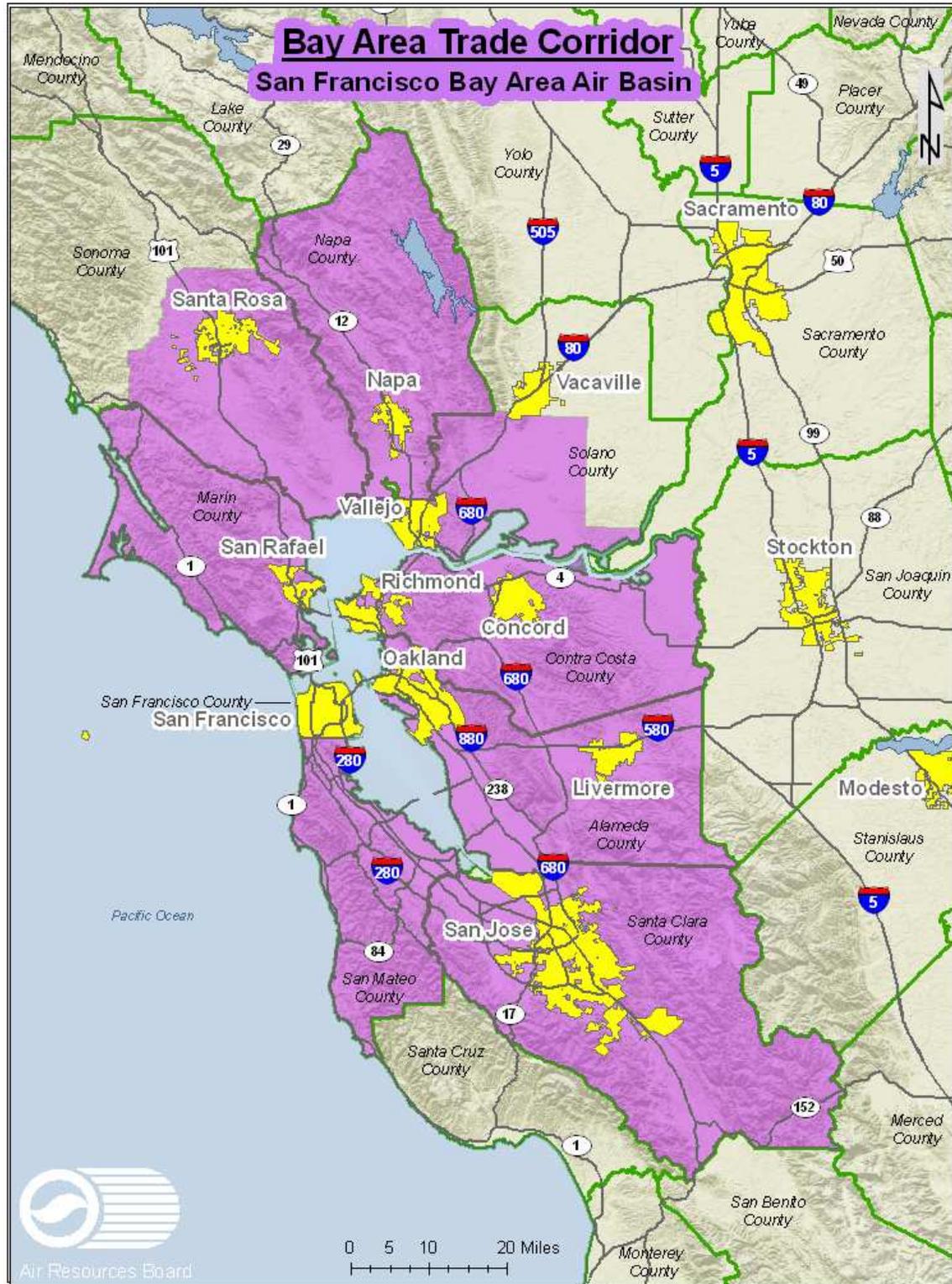
Eligible Equipment	Truck stops, intermodal facilities, distribution centers, and other places where Class 8 heavy diesel trucks (over 33,000 lbs) congregate in a trade corridor.
Option (1) Electrification Infrastructure	Landside electrification infrastructure to reduce diesel engine idling and use of diesel-fueled internal combustion auxiliary power systems may be funded at the lower of 50% of eligible costs or a level commensurate with the weighted reductions per State dollar invested for truck replacement projects. Eligible costs include purchase and installation of electrical infrastructure to: enable heating, cooling, and the use of cab power for parked trucks at truck stops; and enable the use of power for transport refrigeration units and auxiliary power systems at distribution centers, intermodal facilities, and other places where trucks congregate. Reimbursement for the eligible costs shall be based on demonstrated use over the first year of operation.
Requirements	<p>Equipment owner shall:</p> <ul style="list-style-type: none"> • Commit to 10 years of operation. • Agree to equipment inspections. • Comply with record-keeping, reporting, and audit requirements. • Sign a legally binding contract with the local agency including project milestone and completion deadlines. • Properly maintain upgraded equipment in good operating condition and according to manufacturer's recommendations. • Demonstrate proof of equipment warranty. • Comply with all local permitting requirements.
Project Cost Assumptions	<ul style="list-style-type: none"> • Total cost for distribution centers is \$1,500-\$7,000/plug at dock; \$2,500-\$9,000/plug in parking areas; \$500-\$2,000/adaptor for trailers and TRUs. • Total cost for truck stops is \$6,000-\$18,000/parking space; \$3,000/truck modification.
Excluded Funding Components	On-board auxiliary power units and other equipment installed on trucks are not eligible for funding. Transport refrigeration units are not eligible for funding. Electricity costs are not reimbursable.

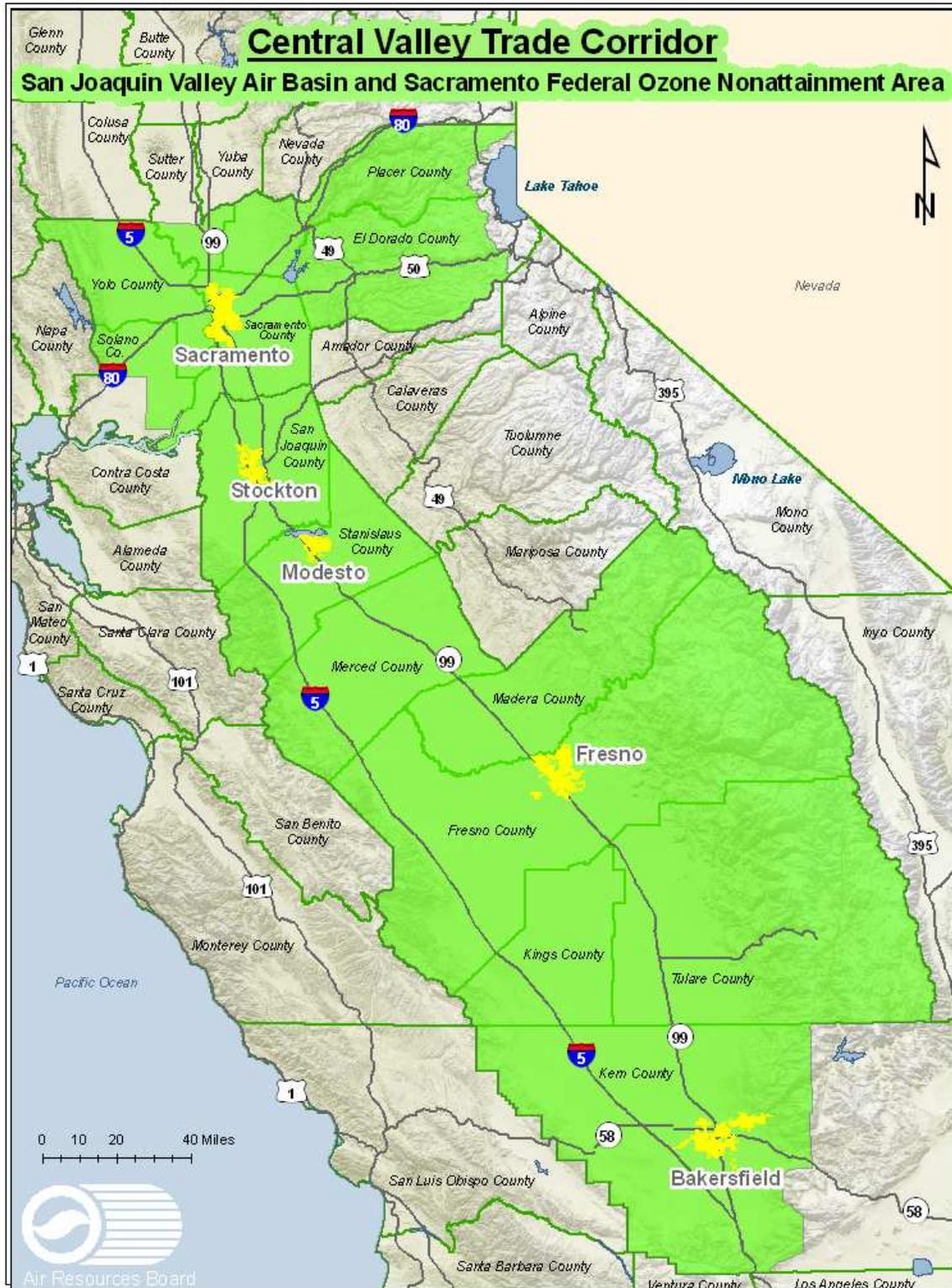
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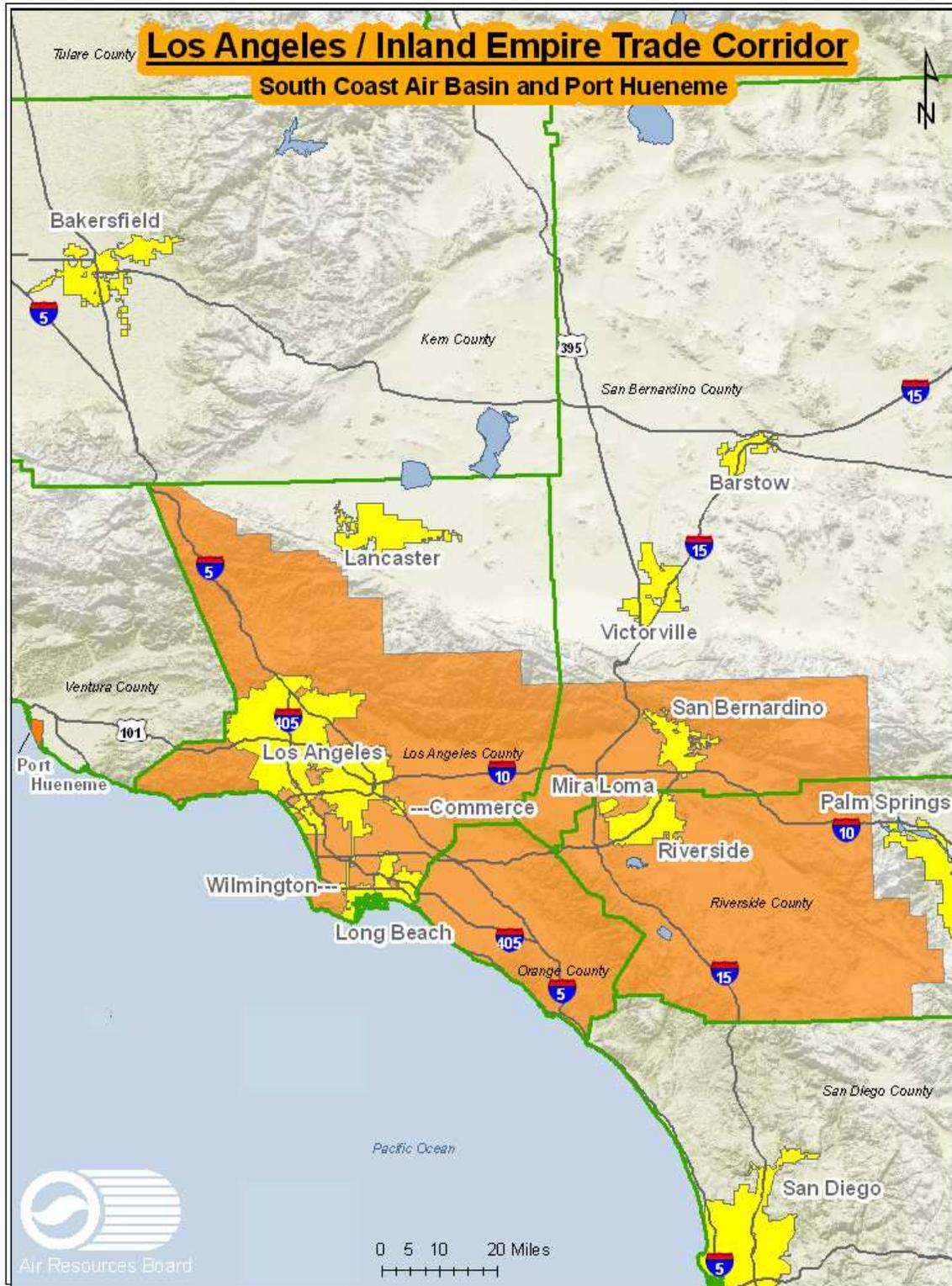
APPENDIX G
Trade Corridor Maps

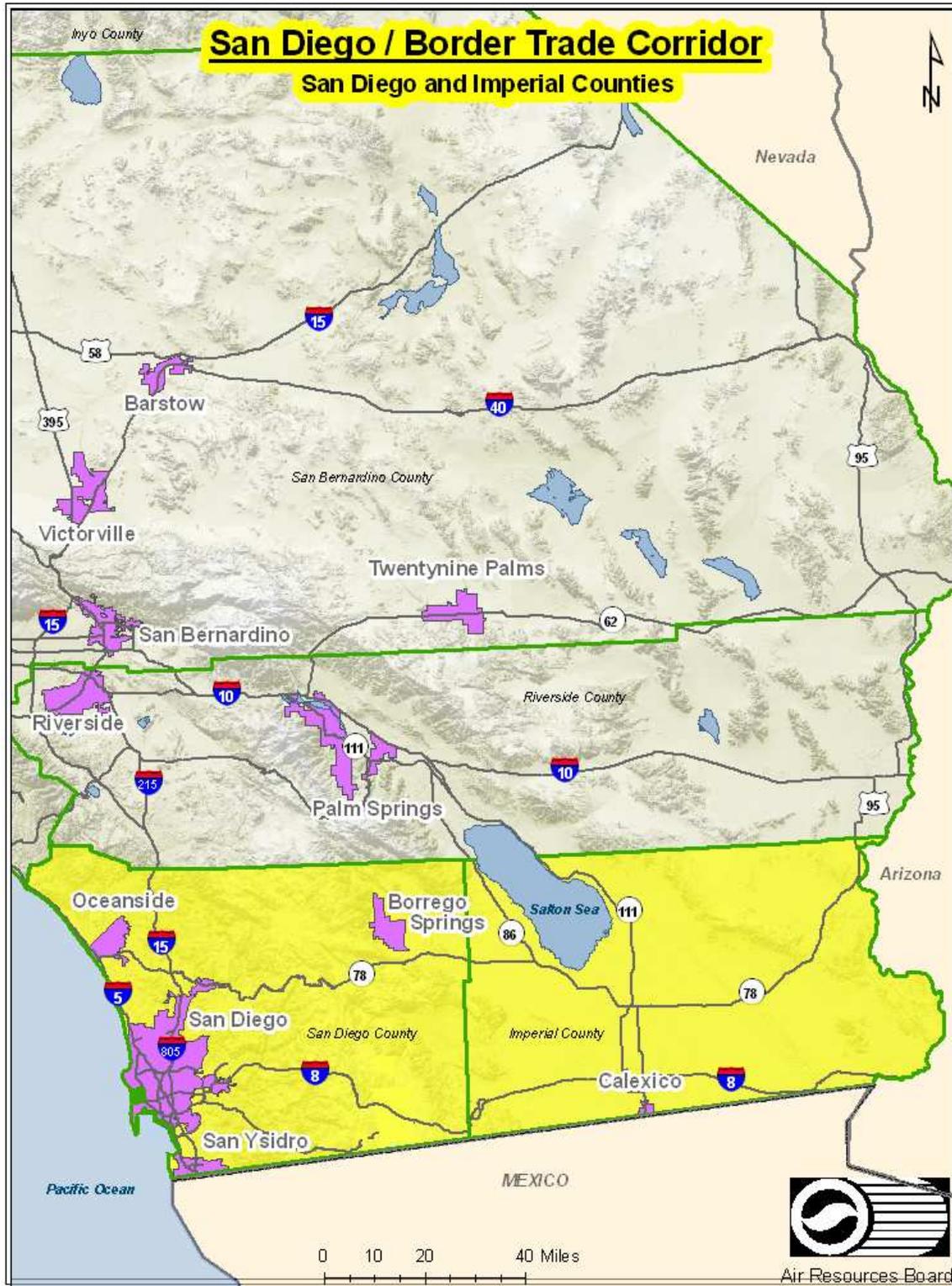
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APPENDIX H: Early Grants from FY2007-08 Funds

SB 88 makes available no more than \$25 million of the FY2007-08 appropriation available for the purpose of executing grant agreements directly with ports, railroads, or local air districts for eligible projects to achieve the earliest possible health risk reduction. SB 88 requires that ARB allocate funds under this “early grant” provision consistent with these Guidelines, and that ARB provide sufficient opportunity for the public to review and comment on any projects proposed for funding.

In order to bring early grant proposals to the Board as quickly as possible, ARB staff directly contacted local air districts within the trade corridors to request proposals for local agency projects that could be under contract with equipment owners and mostly complete by July 31, 2008. ARB staff focused on local air districts due to their demonstrated experience and expertise implementing incentive programs through the Carl Moyer incentive program.

To ensure that the early grant project proposals would be consistent with the eligibility and equipment project requirements included in the Program Guidelines, ARB staff advised the local air districts to use the *Staff Draft Concepts for Implementation* document, released September 19, 2007, as the primary basis for equipment project requirements under the early grant provision. In early November 2007, ARB staff also provided the local air districts with *ARB Staff Expectations for Early Grant Proposals* (attached) to further specify the content of the early grant proposals as well as other critical information (e.g. per equipment funding levels) pertinent to the air district’s development of an early grant proposal.

On November 20, 2007, ARB staff held a conference call with air districts interested in submitting an early grant proposal to clarify questions. In response to comments from the air districts regarding the potential for harbor craft projects that could be quickly implemented, ARB staff expanded the early grant eligibility requirements to allow harbor craft projects at \$135/horsepower.

ARB requested that the proposals include only the information necessary for ARB staff to subsequently calculate the proposal benefits using methods, calculations, and emission factors consistent with those included in the Guidelines.

ARB staff received five early grant proposals, posted on the Program website at: <http://www.arb.ca.gov/gmbond>.

ARB staff’s recommendations for early grant funding include truck projects and one grid-based shore power proposal. Most of the truck proposals submitted by the air districts are based on actual equipment project applications that the air districts received through other incentive programs (like the Carl Moyer program) or direct solicitations based on air district staff assumptions about what this Program would require, as described in the air district early grant applications. Due to the expedited nature and

intent of the early grant proposals, these applications may be considered for funding under this Program.

In order to maintain consistency between the early grants and the other provisions of these Guidelines, the following sections of these Guidelines are applicable to the early grant equipment projects:

- Chapter III
 - Sections B.1 & 4
 - Section C
 - Sections D.1, 3-8, 10, 11-16
 - Sections E-G
- Chapter IV
- Appendices A-G

These sections apply to the early grant projects to ensure that the equipment projects considered for funding by each air district are consistent with these Guidelines. In particular, although the projects may have been initially identified through a solicitation process or identified from an existing incentive program, the air district must still verify the equipment projects' eligibility for Program funds and competitively rank them against each other to ensure that the projects with the greatest benefits are funded first.

In addition, since the air districts did not have the benefit of the detailed provisions in the draft Guidelines while identifying equipment projects for their early grant applications, the equipment project provisions in Appendices A-G apply except where ARB staff provided equipment specifications that differ in the *ARB Staff Expectations for Early Grant Proposals*. In these cases, the air district may choose which equipment specifications work best for their early grant projects.

For example, for grid-based shore power projects under the early grants, ARB staff set the Program funding limit at the lower of \$2.5 million or 70 percent. In response, the Bay Area Air Quality Management District (BAAQMD) proposed a grid-based shore power project in Oakland that is requesting \$1.4 million per berth for two berths (\$2.8 million total Program funds) for a project with a total cost of \$4 million. Although these Guidelines currently propose a per berth funding cap in these Guidelines of \$2.5 million, or 50 percent, whichever is lower, ARB's early grant recommendation for BAAQMD's grid-based shore power project maintains the funding caps originally offered.

In another example, for trucks, *ARB Staff Expectations for Early Grant Proposals* set the operational commitment at 5 years for truck retrofits and 10 years for truck replacements. These Guidelines specify 4 years and 8 years, respectively. Since the current Guidelines are less restrictive, air districts may allow equipment projects to sign equipment contracts with commitments set according to these Guidelines instead of the original concepts.

Goods Movement Emission Reduction Program FY2007/2008

ARB Staff Expectations for Early Grant Proposals

This document includes ARB staff's expectations for FY2007/2008 Early Grant Proposals submitted by local air district applicants. We have also included specific information that supplements and/or modifies the eligibility and operational requirements described in the September 19, 2007 concept paper for the early grant proposals.

In general, ARB staff expects the early grant proposals to follow the staff draft concept paper. We have listed several key expectations for emphasis and clarification.

- The early grant proposals represent a commitment by the applicant to sign a grant agreement with ARB if the ARB Board approves the full or partial proposal, as submitted. We understand that the applicant may reserve the right to withdrawal the proposal should the ARB Board change the conditions or eligibility requirements of the early grants. To provide the ARB Board maximum flexibility in allocating the full \$25 million in early grant dollars, we request that you design the proposals to allow pro-rated funding and acknowledge your willingness to accept a lower funding amount.
- Local agency and equipment eligibility requirements remain as stated in the September 19, 2007 staff draft concept paper, with the exception of the modifications included in this document.
- Equipment operational requirements remain as stated in the September 19, 2007 staff draft concept paper, with the exception of the modifications included in this document.
- Pre/post equipment inspections will be conducted to ensure both the old (as applicable) and new equipment are eligible and operational.
- Legally binding contracts will be signed between the implementing local agency and equipment owners to ensure program accountability.
- Implementing local agencies and equipment owners agree to the reporting and record keeping requirements of the bond program.
- Implementing local agencies will monitor bond-funded equipment for compliance with contract provisions.

The following outline provides the content requirements for the early grant proposals. As indicated, we request that the submittals be no more than 10 pages in length, and preferably shorter. We intend to append these proposals to our proposed Guidelines for public review and comment prior to Board consideration.

1. Summary of proposal (1-2 pages)
 - Briefly state the air quality and health concerns addressed
 - Summarize project types, corridor(s), and costs
 - Identify the implementation schedule (with major milestones)
 - What/how much can you accomplish by June 30, 2008?
 - Why these accomplishments are achievable

2. Detailed proposal (5-10 pages)
 - Geographic coverage
 - Identify the targeted trade corridor(s)
 - Does the proposal target equipment upgrades in specific highly impacted communities? If so, which ones?
 - Describe marketing/outreach (must include entire corridor)
 - Old Equipment
 - Certify that old equipment eligibility is based on the equipment project information tables in the staff draft concept paper, as modified by this document
 - Identify the number of pieces of equipment targeted, by sector
 - Describe the basis for proposing this number of equipment for expedited implementation under the early grants
 - For trucks, identify the number of retrofits and the number of replacements being proposed
 - Operating assumptions for old equipment
 - Trucks (list retrofits and replacements separately)
 - Average age (model year)
 - Average annual VMT
 - Locomotives (only switchers)
 - Average age (years)
 - Control level (uncontrolled, Tier 0, 1)
 - Average annual fuel use
 - Average annual operating hours
 - Shorepower
 - Identify type(s) of cargo vessel (container, bulk, reefer)
 - New Equipment
 - Certify that old equipment eligibility is based on the equipment project information tables in the staff draft concept paper, as modified by this document

- Operating assumptions for new equipment
 - Trucks
 - Must be model year 2007 or 2008 truck
 - Average annual VMT (if different from old equip.)
 - Identify fuel type
 - Locomotives (switchers only)
 - Identify fuel type
 - ARB staff will use annual operating hours reported for old equipment to calculate emission benefits
 - Shore power
 - Ship visits per year using shore power (per berth)

(ARB staff will use operating assumptions to do the calculations consistent with factors/ formulas/ methodologies that will be included in the draft program guidelines)

- Staff resources
 - Describe staff resources available to implement proposal
- Funding proposals (Note: Please separate by sector. ARB will consider each sector as a separate proposal)
 - Total cost
 - Identify truck costs for retrofits and replacements
 - Bond funds requested
 - Matching funds
 - Detail funding source
 - Demonstrate that these funds are available
 - DMV \$4 and \$2 fees may be used as non-state match
(since clarified to be \$4 fees only)
 - Administration funds requested
 - Must comply with staff concept limits
- Early grant milestone requirements
 - 100% of contracts signed with equipment owners by June 30, 2008
 - Trucks
 - Majority of proposed truck upgrades completed and operational by June 30, 2008
 - All of proposed truck upgrades completed and operational by December 31, 2008
 - Locomotives
 - All of new locomotives ordered by June 30, 2008
 - All of new locomotives operational by December 31, 2009
 - Shore power
 - All completed and operational by December 31, 2010
- Provide a project schedule that includes interim milestones
 - Outline specific accomplishments by June 30, 2008
- Implementation
 - Describe how you will secure equipment projects
 - Describe how you will select projects for funding

Goods Movement Emission Reduction Program

Early Grant Proposals – Updated Requirements *(Updates to project options identified in staff concept paper)*

Category	Eligibility	Amounts	Contract Length	Surplus
Truck retrofits	- at least 50% of operation of old equipment must take place within the four trade corridors	\$5,000 per dpf	5 years	6 months
Truck replacement	- at least 50% of operation of old equipment must take place within the four trade corridors - old truck must have annual VMT of 10,000 miles or greater	\$50,000 per truck	10 years	3 years
Shore power	- grid-based power only	\$2.5M per berth (grid-based), or 70% of the shoreside cost to bring power to berth, whichever is less	20 years	3 years
Locomotives	- switchers only - at least 50% of operation of old equipment must take place within the four trade corridors - uncontrolled locomotives eligible with 35,000 gal/yr minimum	\$500,000/ switcher (no DPF required)	20 years	N/A
Harbor Craft	Not eligible for early grants			

Note: Early grants must maintain requirement for 100% California operation for new equipment (except for periodic locomotive maintenance)

