



PROPOSITION 1B - GOODS MOVEMENT EMISSION REDUCTION PROGRAM APPLICATION

FORM A: Ships At-Berth

SECTION 1 – APPLICANT INFORMATION (PLEASE PRINT OR TYPE)

A. ORGANIZATION INFORMATION		
Organization, Company or Proprietor’s Name (as it appears on Form W-9):		
Address:		
City:	State:	Zip Code:
Mailing Address (if different from above):		
City:	State:	Zip Code:
Brief Project Overview (e.g., the number of berths or vessels proposed for this project):		
B. PRIMARY CONTACT INFORMATION		
First and Last Name:		Contact Title:
Phone Number:	Fax Number:	
Alternate Contact Number:	Email:	
C. CONTRACT SIGNING AUTHORITY INFORMATION (e.g., Equipment Owner)		
First and Last Name:		
Title:	Phone Number:	
If the above person is not the owner of the proposed project equipment, please specify the owner’s name here:		
D. PROJECT BUDGET AND FUNDING REQUEST		
Total Project Cost:	Funding Request:	Number of Units Proposed:
Other Funding/Source of other funding (private, local, other State, federal):		

Submit the original completed application (with all required supporting documents and signatures) along with **two (2) copies** of **the entire application package** (a total of 3 copies including the original application) via mail delivery, or in person to:

South Coast Air Quality Management District
21865 Copley Dr., Diamond Bar, CA 91765
Attn: Procurement / PA2017-03

Application Deadline: March 31, 2017 by no later than 4pm

NOTE: Facsimile or email submittals **will not be accepted.**



(THE INFORMATION BELOW IS REQUIRED FOR EACH BERTH. FOR MULTIPLE BERTHS, YOU MAY PROVIDE AN EXCEL SPREADSHEET CONTAINING THE REQUIRED INFORMATION)

SECTION 2 – PROJECT INFORMATION

- Project Type (Check One):
- Grid-Based Shore Power
- Non-Grid-Based Shore Power
- Ship Emissions Capture and Control System

Applicant Type: (Check one):
- Terminal Owner
- Terminal Lessee
- Port Authority
- Other, please specify: _____

List project partners and match funding sources (include documentation of match funding availability):

Port where the project berth/equipment is located:

Berth name/identifier and location within the Port:

Name of Owner and Operator of the Berth:

Project Description: Attach a project description, including but not limited to: the type of equipment to be installed, the need to bring additional power to the project site, design information including the maximum power demand (kWh-hr), utility provider, etc. For Ship Emissions Capture and Control system projects, be sure to include the number of emissions capture subsystems (bonnets) per unit, number of emissions treatment subsystems, a description of the support structure and other key components. Title this attachment "Project Description".

Project Acknowledgement:
If the applicant does not own the site where the equipment will be installed, the applicant shall obtain and include a written project acknowledgement from the site owner with the application submittal or thereafter if allowed by the local agency. The project acknowledgement shall acknowledge/agree in writing, at a minimum:
- The equipment owner will be allowed to install and operate the Program-funded equipment at the site address.
- Program-funded equipment will be the property of the applicant listed in the equipment project application.
- The SCAQMD, ARB, or their designees will be allowed to access the site, equipment, and associated records for inspections, Program reviews, or fiscal audits.

The project acknowledgement is valid over the entire project life.



Project Cost Information: Attach an overall project budget and a cost breakdown summary. The cost breakdown summary should include cost estimates for all phases of the project (e.g., design, environmental, construction, etc.). The cost information should be itemized for each eligible expense by phase of the project. Provide vendor quotes when available. Note that verifiable vendor quotes are required to be submitted with the application for all non-grid based projects. **Title this attachment "Project Cost Information".**

A representative example of a cost breakdown summary for a grid-based shore power project includes the following items:

- Design
- Engineering
- Electrical service connection
- Power upgrade project (prorated by berth if applicable)
- Breakers and secondary breakers
- High-voltage cables
- Step down transformer
- Switchgear
- Power control equipment
- Power connection vaults
- Cable reels, cables, and connectors to connect at the vessel
- Control cable and equipment
- Other costs (as applicable)

Emission Control Equipment Data: For Ship Emission Capture and Control System projects only, provide the name of the equipment vendor(s), specific emission control technology and attach documentation of the CARB approval letter specifying the percentage of PM and NOx reductions.



**SECTION 3 – BERTH ACTIVITY DATA FOR THE PAST TWO YEARS
(FOR GRID- AND NON-GRID-BASED SHORE POWER PROJECTS ONLY)**

Total Number of Ship Visits to the Berth: _____(2014) _____(2015)
Please specify below if this number represents the total visits by vessels regulated under CCR Section 93118.3 OR all vessels that visited the berth:
Number of Visits (per ship) per year:
Average hoteling time per visit (hours/visit):
Ship Type and Size (e.g., twenty-foot equivalent unit, TEU, capacity) for each Ship that Visits the Berth:
Ship Description (including number of engines, fuel type, power demand, including both total auxiliary power (kW) and net hotelling load (kW)):

**SECTION 4 – PREDICTED BERTH ACTIVITY WITH NEW EQUIPMENT
(FOR GRID- AND NON-GRID-BASED SHORE POWER PROJECTS ONLY)**

Total estimated annual ship visits:
Estimated annual ship visits using electrical power:
Estimated ship types, description of each ship and associated power demands:
Estimated annual hoteling hours:
Estimated annual MW usage:



Information demonstrating future visits by vessels will **not** be subject to ARB's Ships at Berth Rule:

SECTION 5 – PREDICTED SHIP ACTIVITY WITH NEW SYSTEM AND PROJECTED EMISSIONS BENEFITS (FOR SHIP EMISSION CAPTURE AND CONTROL SYSTEM PROJECTS ONLY)

Number and type of ships (both subject to and not subject to the control requirements of the Ships at-Berth Rule) that will be under the hood:
Average time ships (by type of ship) will spend under the hood (hours per visit; visits per month/year):
Power usage (kWh) to run the system and source of power (grid- versus non-grid-based):
Natural gas usage (if any) for heating the selective catalytic reduction (SCR) duct burner:
Provide a detailed projection of the emissions reduction benefits of the ship emissions capture and control project. Include an estimate (showing all calculations and assumptions) of PM and NOx emissions with and without the project over ten (10) years of operation. Also discuss the emission reductions attributable to the project that are surplus to any laws or regulations for 10 years. Demonstrate that the weighted emission reductions are equal to or higher/better than 0.1 pound of weighted emissions per State dollar invested. For more information on the application requirements for Ship Emission Capture and Control projects, please see Appendix C of the program guidelines. Title this attachment "Emission Reduction Benefits".



SECTION 6 –PROJECT SCHEDULE

Attach a project schedule that includes project milestone completion dates. For grid-based shore power projects, the project schedule should include milestone dates for the following activities:

- Preliminary Design.
- Environmental Clearance (if applicable).*
- Final Design.
- Equipment ordering (with delivery dates consistent with timely completion of project milestones).
- Receipt of delivery date confirmations from manufacturers (with dates consistent with timely completion of project milestones).
- Equipment delivery (for all equipment with lead times over 1 month). *
- Power upgrade project (if applicable).
- Execution of construction contract(s) for installation services. *
- Permits.
- Start construction (material and equipment installation). *
- Finish construction (material and equipment installation).
- Commissioning/testing.
- Demonstration of a fully operational system (with ship plugged-in).

* Key milestone dates specified by CARB.

Notes:

- 1) If more than one milestone completion date applies to separate activities within a particular category, applicants should provide additional breakdowns. For example, if a transformer and cable reel are both identified to have a procurement lead time of over 1 month, they must be itemized separately in the project schedule.
- 2) The equipment owner may update the milestone dates after the application is submitted, but prior to the execution of the contract. The updated schedule will then be agreed to by the local agency and incorporated into the equipment project contract. The contract will require the equipment owner to provide updates to the project schedule at least quarterly. A schedule recovery plan will be required by the equipment owner if one of the following occurs: 1) one or more berths fail to meet a key milestone date listed in the contract, or 2) the equipment owner or AQMD becomes aware of a change that will cause one or more berths to miss the original project completion date listed in the contract. If the equipment owner fails to meet the commitments in the approved schedule recovery plan, the AQMD may terminate the contract.
- 3) For shore power projects, existing cargo ship berths or existing cargo ship terminals should be at a seaport located within the four California trade corridors that receives visits solely by vessels not subject to the control requirements of ARB’s Ships at-Berth Rule in effect as of 2015.
- 4) For ship emissions capture and control systems, existing cargo ship berth or existing cargo ship terminal shall be located at a seaport located within the four California trade corridors.

Title this attachment “Project Schedule”.