



November 30, 2021

VIA ELECTRONIC MAIL

TRANSPORTATION AND TOXICS DIVISION
CALIFORNIA AIR RESOURCES BOARD
1001 I STREET SACRAMENTO, CA 95814
shorepower@arb.ca.gov

In re: At Berth Terminal and Port Plan

Dear CARB Staff,

Enclosed you will find the terminal and port plan for the following facilities:

- National City Marine Terminal- approximately 130-160 vessel calls annually
- Tenth Avenue Marine Terminal- approximately 90-110 vessel calls annually
- B Street Cruise Ship Terminal- approximately 90-100 vessel calls annually
- Broadway Cruise Ship Terminal-approximately 12-14 vessel calls annually

Noting that the Broadway facility is not currently required to submit a plan due to its low vessel activity as noted above- with some years as low as only 3 vessel calls. While much progress has been made, the largest obstacle has continued to be securing funding. We appreciate any assistance CARB may be able to provide in assisting us and our terminal operators, in order to meet the mutually desired objective.

Thank you,

Port of San Diego

Cc: Angela Condes, CARB; Chris Hamlin- PAS; Sophie Silvestri- PAS; Joe Stuyvesant- POSD; Michael LaFleur- POSD; Joel Valenzuela-POSD; Josefina Khalidy-POSD; Renee Yarmy-POSD

National City Marine Terminal: Port of San Diego & Pasha Automotive Services At Berth Port Plan

This At Berth Port Plan has been prepared pursuant Section 93130.14(b)(3) of the Airborne Toxic Control Measure for Auxiliary Diesel Engines Operated on Ocean-Going Vessels At Berth in a California Port.

1. GENERAL INFORMATION

Port Contact Name: Renee Yarmy

Phone Number:
(619)455-6782

Email: ryarmy@portofsandiego.org

Terminals Included in this Plan:

Name:

Geographic Boundary Coordinates:

National City Marine Terminal	Berths	Latitude	Longitude
	24-1	32.657207	117.118634
	24-2	32.656972	117.121566
	24-3	32.656313	117.122393
	24-4	32.655147	117.122119
	24-5	32.652388	117.121415
	24-10	32.648346	117.116212
	24-11	32.649059	117.113659

2. TERMINAL DETAILS

Terminal details can be found on the subsequent pages.

<p>2.1. [Name of Terminal Operator – Pasha Automotive Services]</p> <p><i>Identification and description of which strateg(ies) the terminal will use for compliance:</i></p> <p>Pasha Automotive Services (“PAS”) and the Port of San Diego (“Port”) plan to facilitate 3 methods of compliance at the National City Marine Terminal: traditional shore power (cold-ironing), barge based bonnet and an alternative emission control strategy utilizing energy from hydrogen fuel cells for a vessel plug-in.</p> <p>Nothing in this At Berth Port Plan constitutes an approval of any specific improvement/project. The District will comply with all applicable law when pursuing implementation of the improvements/projects, including, but not limited to, conducting environmental review pursuant to the California Environmental Quality Act (CEQA).</p>									
<p><i>Equipment purchases and/or construction that are in progress or must still be completed to reduce emissions:</i></p> <ul style="list-style-type: none"> - Trenching, construction and installation of four (4) Shore Power Outlet (SPO) boxes, plugs and terminal infrastructure to support shore power (cold ironing). Three (3) grants have been submitted to support this effort: 2021 VW Mitigation Trust, Federal RAISE grant, Federal PIDP grant. - Installation of solar canopies on the terminal to power hydrogen energy on site - Port of San Diego RFP for a barge-based bonnet to capture emissions for vessel that have not been retrofitted to accept shorepower plug-ins to be operational by the compliance start date for roll-on roll-off vessels of January 1, 2025. - Funding still in process of being obtained for all options 									
<p><i>Schedule for installing equipment and/or any necessary construction projects:</i></p> <table border="0"> <thead> <tr> <th style="text-align: left;"><u>Project:</u></th> <th style="text-align: left;"><u>Estimated Completion Date:</u></th> </tr> </thead> <tbody> <tr> <td>1. 4 Shorepower SPO boxes</td> <td>1. 1 SPO Box December 20, 2024, 3 remaining SPO Box(es) December 2030</td> </tr> <tr> <td>2. Installation of Solar for H2 power</td> <td>2. January 1, 2023</td> </tr> <tr> <td>3. Barge based bonnet system, also known as an emission capture and control system (ECCS)</td> <td>3. December 20, 2024</td> </tr> </tbody> </table>		<u>Project:</u>	<u>Estimated Completion Date:</u>	1. 4 Shorepower SPO boxes	1. 1 SPO Box December 20, 2024, 3 remaining SPO Box(es) December 2030	2. Installation of Solar for H2 power	2. January 1, 2023	3. Barge based bonnet system, also known as an emission capture and control system (ECCS)	3. December 20, 2024
<u>Project:</u>	<u>Estimated Completion Date:</u>								
1. 4 Shorepower SPO boxes	1. 1 SPO Box December 20, 2024, 3 remaining SPO Box(es) December 2030								
2. Installation of Solar for H2 power	2. January 1, 2023								
3. Barge based bonnet system, also known as an emission capture and control system (ECCS)	3. December 20, 2024								
<p><i>Division of responsibilities for enacting infrastructure:</i></p> <p><u>Port:</u></p> <p>The Maritime, Planning & Green Port, Government & Civic Relations, and Engineering & Construction Divisions will be responsible for the grant solicitation, design and construction management of the shorepower system. Port staff has already submitted grant solicitation, and finalized a study to determine costs, timelines, and funding requirements to pursue shorepower. Additionally, the Port released a Request for Proposal (RFP) for a barge-based bonnet capture and control system in</p>									

October 2021 with the anticipated project start date to design, build, etc by June of 2022. The Port will own the barge-based bonnet capture and control system and will charge a fee for its use.

Terminal Operator:

PAS may submit a proposal in response to the Port's RFP. In addition, PAS may provide an alternative solution to vessels at berth (H2 power), if operationally and commercially feasible.

PAS Executive and Operations Management will be responsible for implementation and operation of the infrastructure.

Terminal Operator approval of responsibilities:

The responsible officer of Pasha Automotive Services at the National City Marine Terminal confirms by signing below that he/she has reviewed the division of responsibilities set forth in Section 2.1 of this At Berth Port Plan and agrees to them under penalty of perjury.

Name: Chris Hamlin

Title: Senior Vice President

Signature:

Chris Hamlin

Date: Nov 29, 2021

3. PORT-SPECIFIC BERTHING RESTRICTIONS

[write "none" if there are none; otherwise:]

Terminal:

1. NCMT

Berthing Restriction:

1. Structural repairs required for 24-1, 24-2, 24-3, 24-11 to support trenching
2. Draft Restrictions of 35 ft. for all berths
3. South bay access is limited to 200ft height restriction at the Coronado bridge to access berths

4. SIGNATURES

The Port's responsible officer confirms by signing below that he/she has reviewed the division of responsibilities between the Port and the Terminal Operators that are identified in this At Berth Port Plan and agrees to them under penalty of perjury. The Port does not make any representations or attestations about the accuracy, feasibility, or legality of any of the Terminal Operators' proposed compliance strategies set forth in this At Berth Port Plan.

Name: Mike LaFleur

Title: Vice President, Maritime

Signature:

Michael LaFleur

Date: Nov 30, 2021

Tenth Avenue Marine Terminal: Port of San Diego At Berth Port Plan

This At Berth Port Plan has been prepared pursuant Section 93130.14(b)(3) of the Airborne Toxic Control Measure for Auxiliary Diesel Engines Operated on Ocean-Going Vessels At Berth in a California Port.

1. GENERAL INFORMATION

Port Contact Name: Renee Yarmy

Phone Number:
(619)455-6782

Email: ryarmy@portofsandiego.org

Terminals Included in this Plan:

<u>Name:</u>	<u>Geographic Boundary Coordinates:</u>		
	Berths	Latitude	Longitude
Tenth Avenue Marine Terminal	10-1	32.701096	117.158468
	10-2	32.701096	117.160036
	10-3	32.699796	117.159864
	10-4	32.698315	117.157845
	10-5	32.697972	117.157395
	10-6	32.696618	117.155419
	10-7	32.696527	117.153538
	10-8	32.697015	117.15239
Crosby Street Pier*	N/A	32.696667	117.150833

*While Crosby Pier is not part of the At-Berth Terminal Plan requirement, the District is interested in ensuring CARB understanding of initiative.

2. TERMINAL DETAILS

Terminal details can be found on the subsequent pages.

2.1. [Name of Terminal Operator – Pasha Automotive Services]

Identification and description of which strateg(ies) the terminal will use for compliance:

The Port of San Diego (“Port”) plans to facilitate compliance at the Tenth Avenue Marine Terminal with: traditional shore power (cold-ironing).

Nothing in this At Berth Port Plan constitutes an approval of any specific improvement/project. The District will comply with all applicable law when pursuing implementation of the improvements/projects, including, but not limited to, conducting environmental review pursuant to the California Environmental Quality Act (CEQA).

Equipment purchases and/or construction that are in progress or must still be completed to reduce emissions:

- All trenching, construction and installation of one (1) shorepower SPO boxes, plugs and terminal infrastructure to support shore power (cold ironing) was completed in 2014.
- A shorepower and battery storage system to support Crowley’s forthcoming electric tugboat project has been initiated and is currently in the planning phase. The energy system will be designed to ensure the optimal capacity of the battery energy storage system with a 1(3)MWh of battery storage for quick charging and for peak shaving of the electric power load and save on electricity bills. The charging site for the E-Tug will require 480V @ 500A being supplied from the grid transformer. The project is estimated to be complete in June 2022.

Schedule for installing equipment and/or any necessary construction projects:

<u>Project:</u>	<u>Estimated Completion Date:</u>
1. Shorepower and Battery Storage (E-Tug)	1. June 2022
2. N/A	2. N/A
3. N/A	3. N/A

Division of responsibilities for enacting infrastructure:

Port/Operator:

The Port has served as the operator for the berths associated for shorepower at the TAMT. This facility already meets the compliance requirements, and no further infrastructure is required at this time.

Crowley Tugs has submitted a project proposal, which is currently under review by Port staff.

*Tenth Avenue Marine Terminal
At Berth Port Plan*

<i>Terminal Operator approval of responsibilities:</i> The responsible officer of the Port of San Diego at the Tenth Avenue Marine Terminal confirms by signing below that he/she has reviewed the division of responsibilities set forth in Section 2.1 of this At Berth Port Plan and agrees to them under penalty of perjury.	
Name: Mike LaFleur	Title: Vice President, Maritime
Signature: <i>Michael LaFleur</i>	Date: Nov 30, 2021

3. PORT-SPECIFIC BERTHING RESTRICTIONS

[write "none" if there are none; otherwise:]

Terminal:

1. TAMT

Berthing Restriction:

1. Draft of 30ft at 10-1 and 10-2
2. Draft of 42 ft at 10-3 through 10-8
3. Draft of 23 ft at Crosby Pier

4. SIGNATURES

The Port's responsible officer confirms by signing below that he/she has reviewed the division of responsibilities between the Port and the Terminal Operators that are identified in this At Berth Port Plan and agrees to them under penalty of perjury. The Port does not make any representations or attestations about the accuracy, feasibility, or legality of any of the Terminal Operators' proposed compliance strategies set forth in this At Berth Port Plan.

Name: Mike LaFleur

Title: Vice President, Maritime

Signature:

Michael LaFleur

Date: Nov 30, 2021

B Street Cruise Ship Terminal: Port of San Diego At Berth Port Plan

This At Berth Port Plan has been prepared pursuant Section 93130.14(b)(3) of the Airborne Toxic Control Measure for Auxiliary Diesel Engines Operated on Ocean-Going Vessels At Berth in a California Port.

1. GENERAL INFORMATION

Port Contact Name: Renee Yarmy

Phone Number:
(619)455-6782

Email: ryarmy@portofsandiego.org

Terminals Included in this Plan:

Name:

Geographic Boundary Coordinates:

B Street Cruise Ship Terminal	Berths	Latitude	Longitude
	B-1	32.717977	117.173792
	B-2	32.717941	117.175803
	B-3	32.717426	117.176694
	B-4	32.716853	117.174126
	B-5	32.716862	117.176353

2. TERMINAL DETAILS

Terminal details can be found on the subsequent pages.

2.1. [Name of Terminal Operator – San Diego Unified Port District]

Identification and description of which strateg(ies) the terminal will use for compliance:

The Port of San Diego (“Port”) plans to facilitate compliance at the B Street Cruise Ship Terminal with: traditional shore power (cold-ironing).

Nothing in this At Berth Port Plan constitutes an approval of any specific improvement/project. The District will comply with all applicable law when pursuing implementation of the improvements/projects, including, but not limited to, conducting environmental review pursuant to the California Environmental Quality Act (CEQA).

Equipment purchases and/or construction that are in progress or must still be completed to reduce emissions:

As part of the Cruise Ship Cold Ironing Phase 2 Project, the following work remains:

- Receive second shore power transformer.
- Installation of second shore power transformer.
- Testing and commissioning of new installation.

Schedule for installing equipment and/or any necessary construction projects:

<u>Project:</u>	<u>Estimated Completion Date:</u>
1. Cruise Ship Cold Ironing Phase 2 Project	1. September 2022
2. N/A	2. N/A
3. N/A	3. N/A

Division of responsibilities for enacting infrastructure:

Port/Operator:

The Port serves as the operator for the berths associated for shore power at the B St. Cruise Ship Terminal. This facility already meets the compliance requirements; however, the additional shore power installation will allow more than one vessel to connect at a time. In addition, Phase 2 project will serve to assist in complying with heightened requirements starting January 1, 2023.

*B Street Cruise Ship Terminal
At Berth Port Plan*

Terminal Operator approval of responsibilities:

The responsible officer of the Port of San Diego at the B. St Cruise Ship Terminal confirms by signing below that he/she has reviewed the division of responsibilities set forth in Section 2.1 of this At Berth Port Plan and agrees to them under penalty of perjury.

Name: Mike LaFleur

Title: Vice President, Maritime

Signature:

Michael LaFleur

Date: Nov 30, 2021

3. PORT-SPECIFIC BERTHING RESTRICTIONS

[write "none" if there are none; otherwise:]

Terminal:

1. B St. Cruise Ship Terminal

Berthing Restriction:

1. Draft of 32 feet

4. SIGNATURES

The Port's responsible officer confirms by signing below that he/she has reviewed the division of responsibilities between the Port and the Terminal Operators that are identified in this At Berth Port Plan and agrees to them under penalty of perjury. The Port does not make any representations or attestations about the accuracy, feasibility, or legality of any of the Terminal Operators' proposed compliance strategies set forth in this At Berth Port Plan.

Name: Mike LaFleur

Title: Vice President, Maritime

Signature:

Michael LaFleur

Date: Nov 30, 2021

Broadway Street Cruise Ship Terminal: Port of San Diego At Berth Port Plan

This At Berth Port Plan has been prepared pursuant Section 93130.14(b)(3) of the Airborne Toxic Control Measure for Auxiliary Diesel Engines Operated on Ocean-Going Vessels At Berth in a California Port.

1. GENERAL INFORMATION

Port Contact Name: Renee Yarmy

Phone Number:
(619)455-6782

Email: ryarmy@portofsandiego.org

Terminals Included in this Plan:

Name:

Geographic Boundary Coordinates:

Broadway Cruise Ship
Terminal

Berths

Latitude

Longitude

BDWY-1

32.715892

117.173977

BDWY-2

32.715901

117.175894

BDWY-3

32.715495

117.176299

2. TERMINAL DETAILS

Terminal details can be found on the subsequent pages.

2.1. [Name of Terminal Operator – San Diego Unified Port District]

Identification and description of which strateg(ies) the terminal will use for compliance:

The Port of San Diego (“Port”) plans to facilitate compliance at the Broadway Cruise Ship Terminal with: traditional shore power (cold-ironing). Noting that this facility does not currently meet the number of required visits annually to fall under the regulation.

Nothing in this At Berth Port Plan constitutes an approval of any specific improvement/project. The District will comply with all applicable law when pursuing implementation of the improvements/projects, including, but not limited to, conducting environmental review pursuant to the California Environmental Quality Act (CEQA).

Equipment purchases and/or construction that are in progress or must still be completed to reduce emissions:

- N/A as facility already has shorepower capabilities

Schedule for installing equipment and/or any necessary construction projects:

<u>Project:</u>	<u>Estimated Completion Date:</u>
1. N/A	1. N/A
2. N/A	2. N/A
3. N/A	3. N/A

Division of responsibilities for enacting infrastructure:

Port/Operator:

The Port serves as the operator for the berths associated for shore power at the Broadway Cruise Ship Terminal. This facility already meets the compliance requirements; however, the facility does not have sufficient calls per year under the new regulatory threshold, starting January 1, 2023.

Terminal Operator approval of responsibilities:

The responsible officer of the Port of San Diego at the Broadway Cruise Ship Terminal confirms by signing below that he/she has reviewed the division of responsibilities set forth in Section 2.1 of this At Berth Port Plan and agrees to them under penalty of perjury.

*Broadway Cruise Ship Terminal
At Berth Port Plan*

Name: Mike LaFleur	Title: Vice President, Maritime
Signature: <i>Michael LaFleur</i>	Date: Nov 30, 2021

3. PORT-SPECIFIC BERTHING RESTRICTIONS

[write "none" if there are none; otherwise:]

<u>Terminal:</u> 1. Broadway Cruise Ship Terminal	<u>Berthing Restriction:</u> 1. Draft of 32 feet
--	---

4. SIGNATURES

The Port's responsible officer confirms by signing below that he/she has reviewed the division of responsibilities between the Port and the Terminal Operators that are identified in this At Berth Port Plan and agrees to them under penalty of perjury. The Port does not make any representations or attestations about the accuracy, feasibility, or legality of any of the Terminal Operators' proposed compliance strategies set forth in this At Berth Port Plan.

Name: Mike LaFleur

Title: Vice President, Maritime

Signature:

Michael LaFleur

Date: Nov 30, 2021