



Port of Los Angeles At-Berth Port Plan

This 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.

Contents

1. Port of Los Angeles Port Plan

- Section 1: General Information
- Section 2: Terminal Details (2.1 – 2.14)
- Section 3: Port-Specific Berthing Restrictions
- Section 4: Signature of Port Representative
- Attachments A-N: Terminal Plans Referenced in Section 2

2. Port of Los Angeles Combined Port Plan/Terminal Plan for World Cruise Terminal



1. GENERAL INFORMATION

Port Contact Name: Amber Coluso

Phone Number: (310) 732-3950

Email: acoluso@portla.org

Terminals Included in this Plan:

Name:

Geographic Boundary Coordinates:

1. APM Terminals	1. 33.722090886996625, -118.25254438337515
2. West Basin Container Terminal	2. 33.756491978297944, -118.2883656707375
3. Conoco Phillips (Phillips66)	3. 33.75550245219525, -118.27207489342517
4. Everport	4. 33.74319965018955, -118.26468118948587
5. Fenix Marine Services	5. 33.74134726929683, -118.25331298693834
6. Kinder Morgan	6. 33.75683899474685, -118.28017520886124
7. NuStar Energy/Valero	7. 33.75997302835016, -118.26669471196274
8. PBF Energy	8. 33.734901549457234, -118.27277912250663
9. Shell	9. 33.75433052370465, -118.26739388705505
10. TraPac	10. 33.77056754790128, -118.26734023042205
11. Vopak	11. 33.76648577062244, -118.26006492568224
12. Wallenius Wilhelmsen	12. 33.7690695347976, -118.25803662615778
13. TBD	13. 33.759357363825934, -118.28791607308987
14. Yusen Terminals	14. 33.75480470379808, -118.25695173480659

2. TERMINAL DETAILS

Terminal details can be found on the subsequent pages.

2.6. Kinder Morgan (revised May 13, 2022)

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

Kinder Morgan intends to contract with a CARB-approved third-party barge-based emissions control system. See **Attachment F** for more details.

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

Kinder Morgan must secure a third-party CAECS provider.

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

By December 2023, Kinder Morgan will initiate contracting with a 3rd party service upon CARB certification of a barge based CAECS for liquid bulk vessels. See Attachment F for more details.

Division of responsibilities for enacting infrastructure:

Port:

- Permit the operation of Emission Control Barge in POLA waterways.
- Provide equipment or necessary infrastructure at terminal as determined through Terminal's
- Permit (lease) with the Port.
- Responsibility of uncontrolled emissions due to construction as determined by the Terminal's
- Permit (lease) with the Port.
- Responsibility of uncontrolled emissions from repair of Port owned infrastructure/equipment.

Terminal:

- By December 2023, initiate contracting with 3rd party service provider.
- Initiation of any construction through the Application for Port Permit (APP) process.
- Provide equipment or necessary infrastructure at terminal as determined through Terminal's
- Permit (lease) with the Port.
- Responsibility of uncontrolled emissions due to construction as determined by the Terminal's
- Permit (lease) with the Port.
- Responsibility of uncontrolled emissions from repair of Terminal owned infrastructure/equipment.

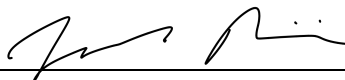
Terminal approval of responsibilities:

By signing below, the terminal's responsible officer confirms that he/she has reviewed the division of responsibilities and agrees to them under penalty of perjury.

Name: John Ririe

Title: Director, Project Management

Signature:



Date: May 16, 2022



3. PORT-SPECIFIC BERTHING RESTRICTIONS

The Port does not impose any berthing restrictions on terminals. Restrictions imposed by terminal operators themselves may be found in their respective terminal plans (see attachments).

4. SIGNATURES

By signing below, the port's responsible officer confirms that he/she has reviewed this plan under penalty of perjury and understands this plan is subject to verification by CARB staff.

Michael DiBernardo

Name:

Title: Deputy Ex Director

Signature: *Michael DiBernardo*

Date:

May 17, 2022



ATTACHMENT F

L.A. Harbor Terminal (Kinder Morgan) At-Berth Terminal Plan

This terminal plan has been prepared pursuant Section 93130.14(a)(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	
Terminal Contact Name: Casey Alleman	
Phone Number: 337-852-5548	Email: casey_alleman@kindermorgan.com
<i>Berths Included in this Plan:</i>	
<u>Name:</u>	<u>Approximate Geographic Boundary Coordinates:*</u>
1. Berth 118/119	1. [33° 45'22.39"N 118° 16'52.03"W]
<i>*The number of berths on a terminal and the spatial positioning of berths are dependent on vessel size; thus, the geographic boundary coordinates are approximates only.</i>	
2. STRATEGY DETAILS	
<i>Strategy/strategies used to comply with the requirements for ocean-going vessels visiting each berth:</i>	
1. Emissions Capture and Control - Barge Based	
2.1 Strategy 1 - Emissions Control Barge (3 rd Party Service Provider)	
<i>Identification and description of all necessary equipment:</i>	
<u>Equipment:</u>	<u>Location:</u>
1. Preconditioning Chamber.	1. Barge
2. Cloud Generation Chambers.	2. Barge
3. System ID Fan.	3. Barge
4. Selective Catalytic Reduction (SCR).	4. Barge
5. Heater (Burner).	5. Barge
6. Heat Exchanger.	6. Barge
7. Exhaust Intake Bonnet (EIB).	7. Barge
8. Articulating Arm.	8. Barge
9. Placement Tower.	9. Barge
Number of vessels expected to use this strategy (annual): 40	
<i>Berths where equipment will be used:</i>	
Berth 118/119	
<i>Schedule for installing equipment:</i>	
<u>Project:</u>	<u>Estimated Completion Date:</u>
1. Emission Control Barge	1. By December 2023, Kinder Morgan will initiate contracting with a 3 rd party service upon CARB certification of a barge based CAECS for liquid bulk vessels.

3. TERMINAL/PORT BERTHING RESTRICTIONS

Are there any terminal or port specific berthing restrictions? If yes, please describe.

Kinder Morgan will engage a Marine Engineering Firm to perform layout studies, mooring and passing vessel analysis considering the barge-based technologies currently under development. Target completion date is December 2023.

4. DIVISION OF ROLES AND RESPONSIBILITIES

Division of responsibilities for enacting infrastructure:

Port:

- Permit the operation of Emission Control Barge in POLA waterways.
- Provide equipment or necessary infrastructure at terminal as determined through Terminal's Permit (lease) with the Port.
- Responsibility of uncontrolled emissions due to construction as determined by the Terminal's Permit (lease) with the Port.
- Responsibility of uncontrolled emissions from repair of Port owned infrastructure/equipment.

Terminal:

- By December 2023, initiate contracting with 3rd party service provider.
- Initiation of any construction through the Application for Port Permit (APP) process.
- Provide equipment or necessary infrastructure at terminal as determined through Terminal's Permit (lease) with the Port.
- Responsibility of uncontrolled emissions due to construction as determined by the Terminal's Permit (lease) with the Port.
- Responsibility of uncontrolled emissions from repair of Terminal owned infrastructure/equipment.

Are there any contractual limitations applicable to the terminal relevant to enacting the infrastructure? If yes, describe.

Kinder Morgan is in the process of accessing and comparing the two currently viable barge emission capture technologies, CAEM and STAX, while also watching the market for others. Service proposals are being reviewed in lieu of negotiating and executing service contracts at this time. The expectation is to select a provider and initiate contracting by December 2023.

Some risks we have identified include availability and scheduling should only one provider obtain CARB approval (single supplier); control technology interfacing with tanker vessel stack and safety requirements; recordkeeping, reporting, and training of facility personnel; readiness and ability of tanker vessels to facilitate control connection; and timeline for necessary agency permitting.

Port approval of responsibilities:

By signing below, the port's responsible officer confirms that he/she has reviewed the division of responsibilities and agrees to them under penalty of perjury.

Name: **Michael DiBernardo** Title: **Deputy Ex Director**

Port: **Los Angeles**

Signature: *Michael DiBernardo* Date: **May 17, 2022**



5. SIGNATURES

By signing below, the terminal's responsible officer confirms that he/she has reviewed this plan under penalty of perjury and understands this plan is subject to verification by CARB staff.

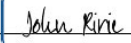
Name: John Ririe

Title: Director, Project Management

Signature:

Date:

5/13/2022

DocuSigned by:

7CC16880F9B648E...