

Submitted by email: shorepower@arb.ca.gov

January 31, 2024

Re: Revised Port Plan for the Port of Long Beach

To the California Air Resources Board (CARB):

Attached, please find the revised Port Plan for the Port of Long Beach pursuant to 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. The 2021 Port Plan was only modified for the Toyota Terminal and Tesoro Terminals.

This Port Plan contains information for 13 marine terminals on Port property subject to the At-Berth Regulation. Of note, this plan does not contain information for the Vopak Terminal at 3601 Dock Street in Long Beach. Vopak is on private land and has no contractual relationship with the Port of Long Beach, nor does the Port own or maintain any infrastructure that might be required for Vopak to comply with this regulation. Please see the attached letter to Vopak sent in February 2021 that confirms this position.

If you have any questions about this Port Plan, please contact Morgan Caswell at <u>morgan.caswell@polb.com</u> or 562-283-7100. We will consider this plan approved if we do not hear from CARB within the 90-day review period. Thank you.

Sincerely,

M...

Mario Cordero Chief Executive Officer Port of Long Beach

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: Morgan Caswell	
Phone Number: 562-283-7100	Email: morgan.caswell@polb.com
Terminals Included in this Plan:	
<u>Name:</u>	Geographic Boundary Coordinates:
1. Total Terminals International	1. 33.76053204408781, -118.22487076709469
2. International Transportation Service	2. 33.74297736441505, -118.19115930587934
3. Pacific Maritime Services (PCT)	3. 33.74120998314381, -118.18805902259558
4. Long Beach Container Terminal	4. 33.750715017805064, -118.21362917771495
5. SSA Terminals (Pier A)	5. 33.774150375998225, -118.23836678179971
6. SSA Terminals (Pier C)	6. 33.774525562376496, -118.20872249590325
7. Chemoil	7. 33.75236775428441, -118.20423598025917
8. SSA Pacific	8. 33.745043809244606, -118.20980617024244
9. Tesoro Logistics (Terminal 2 – B77-B78)	9. 33.77747481991456, -118.20796410354856
10. Tesoro Logistics (LBT – B84-B86)	10. 33.773041933235035, -118.22087704313827
11. Tesoro Logistics (Terminal 1 – T121)	11. 33.756728848857854, -118.21988175389073
12. Petro-Diamond Terminal Company	12. 33.77692842182595, -118.21912813015226
13. Toyota Logistics Services, Inc.	13. 33.77854758030443, -118.22042765696082

2. TERMINAL DETAILS

Terminal details can be found on the subsequent pages.



2.1. Total Terminals International

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

Total Terminals International intends to use shore power as its strategy. Please see Attachment A for more details.

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

Not applicable.

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

Not applicable.

Division of responsibilities for enacting infrastructure:

Note: This plan does not amend or modify the terms and/or the conditions of Total Terminal International's preferential assignment agreement and other agreements with the Port, including without limitation expiration dates, nor does it amend or modify the terms and/or conditions of any agreements of the Port of Long Beach and/or of Total Terminal International with other entities nor does it modify or diminish any other obligations of other entities to the Port of Long Beach and/or Total Terminal International.

	Port	Terminal
Initiation of electrical infrastructure construction including design		1
Responsibility to provide equipment or necessary electrical infrastructure inside of the terminal		1
Responsibility to maintain electrical infrastructure inside of the terminal		1
Responsibility of uncontrolled emissions at berth due to incomplete electrical infrastructure construction		1
Responsibility of uncontrolled emissions during repair of electrical infrastructure/equipment		~
Submission of terminal plan		1
Submission of port plan	\checkmark	

Terminal Operator approval of responsibilities:

The responsible official of **Total Terminals International** 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: William Peratt	Title: CEO
Signature: W. M.C.	Date: November 19, 2021



2.2. International Transportation Service

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

International Transportation Service intends to use shore power as its strategy. Please see **Attachment B** for more details.

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

Shore power outlets are in place at all berths. The wharf at Berth G236 is being extended and one SPO will be repositioned to support larger vessel connections. See Attachment B for more details.

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

Please see Attachment B for more details.

Project:

1. Wharf extension and SPO reposition

Estimated Completion Date: 1. November 2022

Division of responsibilities for enacting infrastructure:

	Port	Terminal
Initiation of electrical infrastructure construction including design		√
Responsibility to provide equipment or necessary electrical infrastructure inside of the terminal		\checkmark
Responsibility to maintain electrical infrastructure inside of the terminal		\checkmark
Responsibility of uncontrolled emissions at berth due to incomplete electrical infrastructure construction		\checkmark
Responsibility of uncontrolled emissions during repair of electrical infrastructure/equipment		\checkmark
Submission of terminal plan		\checkmark
Submission of port plan	\checkmark	

Note: This plan does not amend or modify the terms and/or the conditions of ITS's preferential assignment agreement and other agreements with the Port, including without limitation expiration dates, nor does it amend or modify the terms and/or conditions of any agreements of the Port of Long Beach and/or of ITS with other entities nor does it modify or diminish any other obligations of other entities to the Port of Long Beach and/or ITS.

Terminal Operator approval of responsibilities:

The responsible official of **International Transportation Service** confirms by signing below that he/she has reviewed the division of responsibilities set forth in Section 2.2 of this At Berth Port Plan and agrees to them under penalty of perjury.

Title: Vice President Date: 12/1/21 Name: (hristopher Signature:



2.3. Pacific Maritime Services (PCT)

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

Pacific Maritime Services intends to use shore power as its strategy. Please see Attachment C for more details.

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

None.

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

Not applicable.

Division of responsibilities for enacting infrastructure:

Note: This plan does not amend or modify the terms and/or the conditions of Pacific Maritime Services's (PCT) preferential assignment agreement and other agreements with the Port, including without limitation expiration dates, nor does it amend or modify the terms and/or conditions of any agreements of the Port of Long Beach and/or of PCT with other entities nor does it modify or diminish any other obligations of other entities to the Port of Long Beach and/or PCT.

	Port	Terminal
Initiation of electrical infrastructure construction including design		✓
Responsibility to provide equipment or necessary electrical infrastructure inside of the terminal		\checkmark
Responsibility to maintain electrical infrastructure inside of the terminal		\checkmark
Responsibility of uncontrolled emissions at berth due to incomplete electrical infrastructure construction		\checkmark
Responsibility of uncontrolled emissions during repair of electrical infrastructure/equipment		1
Submission of terminal plan	87	1
Submission of port plan	1	

Terminal Operator approval of responsibilities:

The responsible official of **Pacific Maritime Services** confirms by signing below that he/she has reviewed the division of responsibilities set forth in Section 2.3 of this At Berth Port Plan and agrees to them under penalty of perjury.

Name: 🔰	AL	Ferrigio	Title:	VP
Signature:	11		Date:	11 19/21



2.4. Long Beach Container Terminal (LBCT)

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

LBCT plans to use shore power as its primary strategy. Please see **Attachment D** for more details. *Equipment purchases and/or construction that are in progress or must still be completed to reduce*

None needed.

emissions:

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

No infrastructure needed.

Division of responsibilities for enacting infrastructure:

The electrical infrastructure to support shore power plug-in at LBCT LLC, known as Long Beach Container Terminal, as of December 1, 2021 was designed, bid, and built by the Port of Long Beach (POLB). The terminal roles and responsibilities pertaining to the completed electrical infrastructure at LBCT LLC are:

- Maintain electrical infrastructure inside terminal lease boundaries.
- Control emissions during repair of electrical infrastructure/ equipment.

Additional shore power infrastructure is not required at LBCT LLC to meet the January 1, 2023 deadline. However, should additional electrical infrastructure be deemed necessary in the future, the roles and responsibilities of the terminal are:

- Initiation of electrical infrastructure construction including design.
- Provide equipment or necessary electrical infrastructure inside of the terminal.
- Maintain electrical infrastructure inside of the terminal.
- Control emissions at berth due to incomplete electrical infrastructure construction.
- Control emissions during repair of electrical infrastructure/equipment.

The POLB is responsible for submitting the Port Plan, and LBCT LLC is responsible for submitting this Terminal Plan to the California Air Resources Board (CARB).

Note: this plan does not amend or modify the terms and/or the conditions of LBCT LLC's preferential assignment agreement and other agreements with the POLB, including without limitation expiration dates, nor does it amend or modify the terms and/or conditions of any agreements of the POLB and/or of LBCT LLC with other entities nor does it modify or diminish any other obligations of other entities to the POLB and/or LBCT LLC.

Terminal Operator approval of responsibilities:

The responsible official of Long Beach Container Terminal confirms by signing below that he/she has reviewed the division of responsibilities set forth in Section 2.4 of this At Berth Port Plan and agrees to them under penalty of perjury.

Name: Bill Carson	Title: Director, SSE
Signature: Bill Carson	Date: 11/29/2021



2.5. SSA Terminals (Pier A)

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

SSA intends to use shore power as its primary compliance strategy. Please see Attachment E for more details.

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

None.

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

Not applicable.

Division of responsibilities for enacting infrastructure:

Note: This plan does not amend or modify the terms and/or the conditions of SSA's preferential assignment agreement and other agreements with the Port, including without limitation expiration dates, nor does it amend or modify the terms and/or conditions of any agreements of the Port of Long Beach and/or of SSA with other entities nor does it modify or diminish any other obligations of other entities to the Port of Long Beach and/or SSA.

	Port	Terminal
Initiation of electrical infrastructure construction including design		✓ <i>✓</i>
Responsibility to provide equipment or necessary electrical infrastructure inside of the terminal		\checkmark
Responsibility to maintain electrical infrastructure inside of the terminal	2	1
Responsibility of uncontrolled emissions at berth due to incomplete electrical infrastructure construction		~
Responsibility of uncontrolled emissions during repair of electrical infrastructure/equipment		~
Submission of terminal plan		\checkmark
Submission of port plan	\checkmark	

Terminal Operator approval of responsibilities:

The responsible official of **SSATerminals Pier A** confirms by signing below that he/she has reviewed the division of responsibilities set forth in Section 2.5 of this At Berth Port Plan and agrees to them under penalty of perjury.

SA. FULLAND Title: Name: Date: Signature:



2.6. SSATerminals (Pier C)

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

SSA intends to use shore power as its primary compliance strategy. Please see Attachment F for more details.

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

None.

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

Not applicable

Division of responsibilities for enacting infrastructure:

Note: This plan does not amend or modify the terms and/or the conditions of SSA's preferential assignment agreement and other agreements with the Port, including without limitation expiration dates, nor does it amend or modify the terms and/or conditions of any agreements of the Port of Long Beach and/or of SSA with other entities nor does it modify or diminish any other obligations of other entities to the Port of Long Beach and/or SSA.

	Port	Terminal
Initiation of electrical infrastructure construction including design		1
Responsibility to provide equipment or necessary electrical infrastructure inside of the terminal		1
Responsibility to maintain electrical infrastructure inside of the terminal		1
Responsibility of uncontrolled emissions at berth due to incomplete electrical infrastructure construction		1
Responsibility of uncontrolled emissions during repair of electrical infrastructure/equipment		~
Submission of terminal plan		1
Submission of port plan	\checkmark	

Terminal Operator approval of responsibilities:

The responsible official of SSA Terminals Pier C confirms by signing below that he/she has reviewed the division of responsibilities set forth in Section 2.6 of this At Berth Port Plan and agrees to them under penalty of perjury.

FERFIGIO Name: Title: Signature: Date: 21



2.7. Chemoil

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

Chemoil plans to use shore power as its strategy. Please see Attachment G for more details.

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

Chemoil must install the shore power infrastructure. See Attachment G for more details.

Schedule for installing equipment and/or an	y necessary construction projects:
Project:	Estimated Completion Date:
1. Shore power infrastructure	1. Q3 2024

Division of responsibilities for enacting infrastructure:

	Port	Terminal
Initiation of electrical infrastructure construction including design		~
Responsibility to provide equipment or necessary electrical infrastructure inside of the terminal		~
Responsibility to maintain electrical infrastructure inside of the terminal		~
Responsibility of uncontrolled emissions at berth due to incomplete electrical infrastructure construction		~
Responsibility of uncontrolled emissions during repair of electrical infrastructure/equipment		~
Submission of terminal plan		1
Submission of port plan	\checkmark	

Note: this plan does not amend or modify the terms and/or the conditions of Chemoil Terminals LLC's preferential assignment agreement and other agreements with the Port, including without limitation expiration dates, nor does it amend or modify the terms and/or conditions of any agreements of the Port of Long Beach and/or of Chemoil Terminals LLC's with other entities nor does it modify or diminish any other obligations of other entities to the Port of Long Beach and/or Chemoil Terminals LLC's.

Chemoil Terminals LLC's preferential assignment agreement expires 6/30/2025. Roles and responsibilities may be updated in a new preferential assignment agreement. Any changes to roles and responsibilities will be updated in an amended plan sent to CARB.



Terminal Operator approval of responsibilities:

The responsible official of **Chemoil** Terminal confirms by signing below that he/she has reviewed the division of responsibilities set forth in Section 2.7 of this At Berth Port Plan and agrees to them under penalty of perium

Name: M- Joll	Title: Vice President
Signature: Voucand R Goothing	Date: 11/19/21

2.8. SSA Pacific

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

SSA Pacific plans to use shore power as its strategy. Please see Attachment H for more details.

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

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

 Project:
 Estimated Completion Date:

1. Shore power infrastructure 1. Less than 4 years from project start date

Division of responsibilities for enacting infrastructure:

Note: This plan does not amend or modify the terms and/or the conditions of SSA Pacific's preferential assignment agreement and other agreements with the Port, including without limitation expiration dates, nor does it amend or modify the terms and/or conditions of any agreements of the Port of Long Beach and/or of SSA Pacific with other entities nor does it modify or diminish any other obligations of other entities to the Port of Long Beach and/or SSA Pacific.

Responsibility	Port	Terminal Oper <i>a</i> tor
Submission of Terminal Plan per Section 93130.14(a)		\checkmark
Submission of Port Plan per Section 93130.14(b)	\checkmark	
Initiation of on-terminal terminal shore power design, permitting and construction (from substation to berth)		\checkmark
Responsibility to provide shore power equipment or necessary shore power infrastructure inside of the terminal		
Responsibility to maintain shore power infrastructure inside of the terminal		\checkmark
Responsibility of uncontrolled emissions at berth due to incomplete shore power infrastructure construction (from substation to vessel connection)		\checkmark
Communicate and coordinate with vessel prior to arrival		\checkmark
Ensure proper positioning of vessel		\checkmark
Connect vessels to shore power when called by a commissioned shore power-enabled vessel		\checkmark
Submit vessel visit information and wharfinger data to CARB per regulation requirements	\checkmark	\checkmark
Responsibility of uncontrolled emissions from repair of shore powerinfrastructure/equipment		\checkmark

Terminal Operator approval of responsibilities:

The responsible official of **SSA Pacific** Terminal confirms by signing below that he/she has reviewed the division of responsibilities set forth in Section 2.8 of this At Berth Port Plan and agrees to them under penalty of perjury.

Title: Name: Date: Signature: 11/23 12



2.9. Tesoro Logistics (Terminal 2-B77-B78)

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

Tesoro plans to use a CARB-approved capture and control system (CAECS), CARB-approved innovative concept, and terminal shore power system. Please see Attachment I for more details.

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

Tesoro must secure a third-party owned and operated, barge-based capture and control system that is CARB approved. In addition, Tesoro will install shore power infrastructure.

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

 Project:
 Estimated Completion Date:

1.	CAECS
2.	Innovative Concept
3.	Shore Power

See Attachment I
 See Attachment I

3. See Attachment I

Division of responsibilities:

Note: this plan does not amend or modify the terms and/or conditions of Tesoro Refining & Marketing Company LLC's preferential assignment agreement and other agreements with the Port, including without limitation expiration dates, nor does it amend or modify the terms and/or conditions of any agreements of the Port of Long Beach and/or Tesoro Refining & Marketing LLC with other entities nor does it modify or diminish any other obligations of other entities to the Port of Long Beach and/or Tesoro Refining & Marketing Company LLC.

Responsibility	Port	Terminal
Initiation of electrical infrastructure construction including design		~
Responsibility to provide equipment or necessary electrical infrastructure inside of the terminal		~
Responsibility to maintain electrical infrastructure inside of the terminal		1
Responsibility of uncontrolled emissions at berth due to incomplete electrical infrastructure construction		~
Responsibility of uncontrolled emissions during repair of electrical infrastructure/equipment		~
Submission of terminal plan		1
Submission of port plan	\checkmark	

Terminal Operator approval of responsibilities:

The responsible official of Tesoro Logistics (B77-B78) confirms by signing below that he/she has reviewed the division of responsibilities set forth in Section 2.9 of this At Berth Port Plan and agrees to them under penalty of perjury.

Port of LONG BEACH THE PORT OF CHOICE		At Berth Port Plan
Name: Timothy W. Hoyes Title: Reg Signature: Virmothy R. Hoyes I-3	910n M. 26-202	annger 24
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January 2024

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2.10. Tesoro Logistics (LBT-B84-B86)

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

Tesoro plans to use a CARB-approved capture and control system (CAECS), CARB-approved innovative concept, and terminal shore power system. Please see **Attachment J** for more details.

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

Tesoro must secure a third-party owned and operated, barge-based capture and control system that is CARB approved. In addition, Tesoro will install shore power infrastructure.

Schedule for installing equipment and/or any necessary construction projects:
Project:
Estimated Completion Date:

4.	CAECS	
5.	Innovative Concept	
6.	Shore Power	

See Attachment J
 See Attachment J

6. See Attachment J

Division of responsibilities:

Note: this plan does not amend or modify the terms and/or conditions of Tesoro Refining & Marketing Company LLC's preferential assignment agreement and other agreements with the Port, including without limitation expiration dates, nor does it amend or modify the terms and/or conditions of any agreements of the Port of Long Beach and/or Tesoro Refining & Marketing LLC with other entities nor does it modify or diminish any other obligations of other entities to the Port of Long Beach and/or Tesoro Refining & Marketing CLC with other entities nor does it modify or diminish any other obligations of other entities to the Port of Long Beach and/or Tesoro Refining & Marketing Company LLC.

Responsibility	Port	Terminal
Initiation of electrical infrastructure construction including design		~
Responsibility to provide equipment or necessary electrical infrastructure inside of the terminal		~
Responsibility to maintain electrical infrastructure inside of the terminal		~
Responsibility of uncontrolled emissions at berth due to incomplete electrical infrastructure construction		~
Responsibility of uncontrolled emissions during repair of electrical infrastructure/equipment		~
Submission of terminal plan		1
Submission of port plan	\checkmark	

Terminal Operator approval of responsibilities:

The responsible official of Tesoro Logistics (LBT) confirms by signing below that he/she has reviewed the division of responsibilities set forth in Section 2.10 of this At Berth Port Plan and agrees to them under penalty of perjury.

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thy MHAYES Title: Region Manager Nother M Noyis 1-26-2024 Name: Signature

January 2024

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2.11. Tesoro Logistics (Terminal 1-T121)

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

Tesoro must secure a third-party owned and operated, barge-based capture and control system that is CARB approved. In addition, Tesoro will install shore power infrastructure. Please see Attachment K for more details.

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

Tesoro must secure a third-party owned and operated, barge-based capture and control system that is CARB approved. In addition, Tesoro will install shore power infrastructure.

Schedule for installing equipment and/or any necessary construction projects:				
Project: Estin			ted Completion Date:	
7.	CAECS	7.	See Attachment K	
8.	Innovative Concept	8.	See Attachment K	

8.	See	Attac	hment	tΚ

9. See Attachment K

9. Shore Power Division of responsibilities:

Note: this plan does not amend or modify the terms and/or conditions of Carson Cogeneration LLC's preferential assignment agreement and other agreements with the Port, including without limitation expiration dates, nor does it amend or modify the terms and/or conditions of any agreements of the Port of Long Beach and/or Carson Cogeneration LLC with other entities nor does it modify or diminish any other obligations of other entities to the Port of Long Beach and/or Carson Cogeneration LLC.

Responsibility	Port	Terminal
Initiation of electrical infrastructure construction including design		√
Responsibility to provide equipment or necessary electrical infrastructure inside of the terminal		√
Responsibility to maintain electrical infrastructure inside of the terminal		~
Responsibility of uncontrolled emissions at berth due to incomplete electrical infrastructure construction		\checkmark
Responsibility of uncontrolled emissions during repair of electrical infrastructure/equipment		\checkmark
Submission of terminal plan		\checkmark
Submission of port plan	\checkmark	

Terminal Operator approval of responsibilities:

The responsible official of Tesoro Terminal confirms by signing below that he/she has reviewed the division of responsibilities set forth in Section 2.11 of this At Berth Port Plan and agrees to them under penalty of perjury.

January 2024

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Port of LONG BEACH THE PORT OF CHOICE

5, Title: Region Manager Date: 1-26-2024 W. Hayes Name: Tin Signature

January 2024

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2.12. Petro-Diamond Terminal Company

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

None. Petro-Diamond is considered a low-use terminal per 93130.10(a)(2). Please see Attachment L for more details.

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

Not applicable.

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

Not applicable.

Division of responsibilities for enacting infrastructure: Port:

Not applicable

Terminal Operator:

Not applicable

Note: This plan does not amend or modify the terms and/or the conditions of Petro-Diamond's preferential assignment agreement and other agreements with the Port, including without limitation expiration dates, nor does it a mend or modify the terms and/or conditions of any agreements of the Port of Long Beach and/or of Petro-Diamond with other entities nor does it modify or diminish any other obligations of other entities to the Port of Long Beach and/or Petro-Diamond.

Terminal Operator approval of responsibilities:

The responsible official of Petro-Diamond Terminal confirms by signing below that he/she has reviewed the division of responsibilities set forth in Section 2.12 of this At Berth Port Plan and agrees to them under penalty of perjury.

Name:	ERIC (QWARD	Title:	GENERAL MGR.	
Signature:	Guil	a	Date:	11/23/2021	



2.13. Toyota Logistics Services

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

Toyota plans to use a CARB approved capture and control system (CAECS) and shore power. Please see **Attachment M** for more details.

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

Toyota must secure the CAECS and deploy shore power infrastructure, per the plan in Attachment M.

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

1. CAECS

2. Shore Power

- 1. See Attachment M
- 2. See Attachment M

Division of responsibilities:

Note: this plan does not amend or modify the terms and/or conditions of Toyota's preferential assignment agreement and other agreements with the Port, including without limitation expiration dates, nor does it amend or modify the terms and/or conditions of any agreements of the Port of Long Beachand/or Toyota with other entities nor does it modify or diminish any other obligations of other entities to the Port of Long Beachand/or Toyota.

	_	<u> </u>
Responsibility	Port	Terminal
Initiation of electrical infrastructure construction including		\checkmark
design		
Responsibility to provide equipment or necessary electrical		\checkmark
infrastructure inside of the terminal		
Responsibility to maintain electrical infrastructure inside of		\checkmark
the terminal		
Responsibility of uncontrolled emissions at berth due to		\checkmark
incomplete electrical infrastructure construction		
Responsibility of uncontrolled emissions during repair of		\checkmark
electrical infrastructure/equipment		
Submission of terminal plan		\checkmark
Submission of port plan	\checkmark	
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Terminal Operator approval of responsibilities:

The responsible official of Toyota Terminal confirms by signing below that he/she has reviewed the division of responsibilities set forth in Section 2.13 of this At Berth Port Plan and agrees to them under penalty of perjury.

Name: Manny Bansi

Title: VP TLS



Signature: Manny Bansi Manny Bansi (Jan 25, 2024 15:33 CST) Date: 01/25/2024



Attachment A:

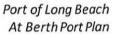
Terminal Plan for Total Terminals International

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Port of Long Beach





California Air Resources Board Control Measure for Ocean-Going Vessels At Berth Terminal Plan, Dated October 29, 2021

Port: Long Beach Terminal: Pier T Terminal Operator: Total Terminals International, LLC Terminal Point of Contact: Justin French Phone: (562) 256-2752

Purpose

In response to the "Final Regulation Order, Control Measure For Ocean-Going Vessels At Berth" Section 93130.14, this document is intended to serve as the Terminal Plan for Total Terminals International, LLC (TTI).

Overview

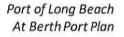
TTI currently services container ships at its facility located at Pier T within the Port of Long Beach. Pursuant to the new Control Measure, Section 93130.14, TTI intends to utilize shore power connections as the control strategy for achieving compliance for all ocean-going container vessels that visit Pier T under this Control Measure.

Terminal Plan Details

TTI submits this Terminal Plan in accordance with Section 93130.14 (3) for the implementation of the new Control Measure, pursuant to sub-sections (A) through (H) below:

- (A) Identification and description of all necessary equipment, including whether it will be located on the vessel, wharf, shore, or elsewhere
 - TTI Response Please reference the below Table 1 which identifies and describes the necessary equipment.

Table 1	
ldentification / Description of Necessary Equipment	 SPO 2 – Shore power vault located on wharf SPO 3 – Shore power vault located on wharf SPO 5 – Shore power vault located on wharf SPO 6 – Shore power vault located on wharf SPO 8 – Shore power vault located on wharf SPO 9 – Shore power vault located on wharf SPO 11 – Shore power vault located on wharf SPO 12 – Shore power vault located on wharf SPO 14 – Shore power vault located on wharf SPO 15 – Shore power vault located on wharf SPO 16 – Shore power vault located on wharf





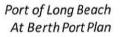
(B) Number of vessels expected to visit the terminal using the strategy

- TTI Response Current forecasts reflect 156 container vessel calls are anticipated at TTI annually, all of which are expected to use shore power as the control strategy.
- (C) List of each berth with geographic boundary coordinates
 - TTI Response
 - Berth 134: 33.754570,-118.232231 to 33.755577,-118.228825
 - Berth 136: 33.753387,-118.236274 to 33.754570,-118.232231
 - Berth 138: 33.752204,-118.240317 to 33.753387,-118.236274
 - Berth 140: 33.751021,-118.244360 to 33.752204,-118.240317
- (D) Identify berth(s) where equipment will be used
 - TTI Response
 - Berth 134
 - Berth 136
 - Berth 138
 - Berth 140
- (E) Terminal/port specific berthing restrictions
 - TTI Response While TTI has four identified berths (134, 136, 138, 140), only 3
 container vessels can be berthed alongside the wharf at any point in time due to the
 large size of the vessels.
- (F) Schedule for installing equipment
 - TTI Response Not applicable, as all equipment is currently installed.
- (G) Division of responsibilities between the terminal operator and the port, including contractual limitations applicable to the terminal, relevant to enacting the infrastructure required by each terminal's plan
 - TTI Response Please see Table 2 below for the division of responsibilities. There are not
 expected to be any contractual limitations.

Table 2

	Port	Terminal
Initiation of electrical infrastructure construction including design		✓ ✓
Responsibility to provide equipment or necessary electrical infrastructure inside of the terminal		~
Responsibility to maintain electrical infrastructure inside of the terminal		~
Responsibility of uncontrolled emissions at berth due to incomplete electrical infrastructure construction		~
Responsibility of uncontrolled emissions during repair of electrical infrastructure/equipment		~
Submission of terminal plan		1
Submission of port plan	1	

Note: This plan does not amend or modify the terms and/or the conditions of TTI's preferential assignment agreement and other agreements with the Port, including without limitation expiration dates, nor does it amend or modify the terms and/or conditions of any agreements of the Port of Long Beach and/or of TTI with other entities nor does it modify or diminish any other obligations of other entities to the Port of Long Beach and/or TTI.





- (H) A terminal operator claiming that a physical and/or operational constraint will delay its ability to implement its preferred CARB approved control strategy to achieve emission reductions from vessels at berth according to the requirements of section 93130 et seq., must also include with its terminal plan a technical feasibility study evaluating if there are any other emission control options that could be implemented more quickly at the terminal.
 - TTI Response Not applicable, as TTI is not claiming a physical and/or operational constraint.

Port Approval of Responsibilities

Set forth in Section G of this At Berth Terminal Plan, the port's responsible official confirms by signing below that he/she has reviewed the division of responsibilities and agrees to them under penalty of perjury. The Port does not make any representations about the accuracy, feasibility, or legality of Total Terminals International, LLC's proposed compliance strategy set forth in this At Berth Terminal Plan.

Name of Port's Responsible Official Signature of Port's Responsible

Terminal Approval of Responsibilities

By signing below, Total Terminals International, LLC's responsible official confirms under penalty of perjury that he/she has reviewed this At Berth Terminal Plan and is submitting this At Berth Terminal Plan as Total Terminals International, LLC's compliance strategy for the At Berth Regulation. Total Terminals International, LLC understands this plan is subject to verification by CARB staff.

William Peratt

10/29/2021 Date

Name of Terminal's Responsible Official

Signature of Terminal's Responsible Official



Attachment B:

Terminal Plan for International Transportation Service



INTERNATIONAL TRANSPORTATION SERVICE, LLC (ITS) 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.

Terminal Contact Name: Christopher Rap	
Phone Number: 562.590.6839	Email: christopher.rapp@itslb.com
Berths Included in this Plan:	
Name:	Approximate Geographic Boundary Coordinates
1. G227	1. G227: 33.44.'47.93"N 118.11'56.89" W
2. G232	2. G232: 33.44'38.41" N 118.12'05.59" W
3. G235	3. G235: 33.44'47.93" N 118.11'49.78" W
4. G236	4. G236: 33.44'38.89" N 118.11'41.19 " W
geographic boundary coordinates are approxir	spatial positioning of berths are dependent on vessel size; thus, th mates only.
2. STRATEGY DETAILS	
Strategy(ies) used to comply with the requ	irements for ocean-going vessels visiting each berth:
1. Shorepower	
2.1 [Strategy 1]	
dentification and description of all necess	ary equipment:
Shore power outlets (SPOs) are in place at	all berths. The wharf at G236 is being extended, and
Shore power outlets (SPOs) are in place at	all berths. The wharf at G236 is being extended, and O to support larger vessel connections.
Shore power outlets (SPOs) are in place at construction includes one repositioned SPG	all berths. The wharf at G236 is being extended, and O to support larger vessel connections. Location:
Shore power outlets (SPOs) are in place at construction includes one repositioned SPG Equipment:	all berths. The wharf at G236 is being extended, and O to support larger vessel connections.
Shore power outlets (SPOs) are in place at construction includes one repositioned SPG	all berths. The wharf at G236 is being extended, and O to support larger vessel connections. Location:
Shore power outlets (SPOs) are in place at construction includes one repositioned SPG cauipment: 1. Shorepower Outlet (SPO)	all berths. The wharf at G236 is being extended, and O to support larger vessel connections. <u>Location</u> : 1. Wharf
Shore power outlets (SPOs) are in place at construction includes one repositioned SPO Equipment: 1. Shorepower Outlet (SPO)	all berths. The wharf at G236 is being extended, and O to support larger vessel connections. <u>Location:</u> 1. Wharf Tategy (annual): As many as capable (Subject to change)
Construction includes one repositioned SPC Equipment: 1. Shorepower Outlet (SPO) Number of <u>vessels</u> expected to use this stru- Number of vessel <u>visits</u> expected to use this	all berths. The wharf at G236 is being extended, and O to support larger vessel connections. <u>Location</u> : 1. Wharf
Shore power outlets (SPOs) are in place at construction includes one repositioned SPO <u>auipment:</u> 1. Shorepower Outlet (SPO) Jumber of <u>vessels</u> expected to use this stra Jumber of vessel <u>visits</u> expected to use this	all berths. The wharf at G236 is being extended, and O to support larger vessel connections. <u>Location:</u> 1. Wharf Tategy (annual): As many as capable (Subject to change)
Shore power outlets (SPOs) are in place at construction includes one repositioned SPO Equipment: 1. Shorepower Outlet (SPO) Aumber of vessels expected to use this stru- lumber of vessel visits expected to use this erths where equipment will be used:	all berths. The wharf at G236 is being extended, and O to support larger vessel connections. <u>Location:</u> 1. Wharf Tategy (annual): As many as capable (Subject to change)
Shore power outlets (SPOs) are in place at construction includes one repositioned SPO Equipment: 1. Shorepower Outlet (SPO) Aumber of vessels expected to use this stra lumber of vessel visits expected to use this terths where equipment will be used: 1. G232 (5 SPOs)	all berths. The wharf at G236 is being extended, and O to support larger vessel connections. <u>Location:</u> 1. Wharf Tategy (annual): As many as capable (Subject to change)
Shore power outlets (SPOs) are in place at construction includes one repositioned SPO <u>cauipment:</u> 1. Shorepower Outlet (SPO) <u>Aumber of vessels expected to use this stra</u> <u>Jumber of vessel visits expected to use this</u> <u>terths where equipment will be used:</u> 1. G232 (5 SPOs) 2. G235 (1 SPO)	all berths. The wharf at G236 is being extended, and O to support larger vessel connections. <u>Location:</u> 1. Wharf Tategy (annual): As many as capable (Subject to change)
Shore power outlets (SPOs) are in place at construction includes one repositioned SPO Equipment: 1. Shorepower Outlet (SPO) Number of vessels expected to use this stru- lumber of vessel visits expected to use this ferths where equipment will be used: 1. G232 (5 SPOs)	all berths. The wharf at G236 is being extended, and O to support larger vessel connections. <u>Location:</u> 1. Wharf Tategy (annual): As many as capable (Subject to change)
Shore power outlets (SPOs) are in place at construction includes one repositioned SPO Equipment: 1. Shorepower Outlet (SPO) Number of vessels expected to use this stru- lumber of vessel visits expected to use this lerths where equipment will be used: 1. G232 (5 SPOs) 2. G235 (1 SPO) 3. G236 (6 SPOs)	all berths. The wharf at G236 is being extended, and O to support larger vessel connections. <u>Location:</u> 1. Wharf Tategy (annual): As many as capable (Subject to change)
Shore power outlets (SPOs) are in place at construction includes one repositioned SPO Equipment: 1. Shorepower Outlet (SPO) Mumber of vessels expected to use this stra Jumber of vessel visits expected to use this stra Jumber of vessel visits expected to use this Perths where equipment will be used: 1. G232 (5 SPOs) 2. G235 (1 SPO) 3. G236 (6 SPOs) chedule for installing equipment:	all berths. The wharf at G236 is being extended, and O to support larger vessel connections. <u>Location</u> : 1. Wharf rategy (annual): As many as capable (Subject to change) is strategy (annual): As many as capable (Subject to change
Shore power outlets (SPOs) are in place at construction includes one repositioned SPO Equipment: 1. Shorepower Outlet (SPO) Number of vessels expected to use this stra Number of vessel visits expected to use this Berths where equipment will be used: 1. G232 (5 SPOs) 2. G235 (1 SPO)	all berths. The wharf at G236 is being extended, and O to support larger vessel connections. <u>Location:</u> 1. Wharf Tategy (annual): As many as capable (Subject to change)



connections for larger vessels in the future)

3. TERMINAL OPERATOR/PORT BERTHING RESTRICTIONS

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

- All ITS shorepower berths are separate and not linear. Therefore, ITS is limited to the berth capacity and ship lengths.
- ITS connects on Port Side.

4. DIVISION OF ROLES AND RESPONSIBILITIES

Division of responsibilities for enacting infrastructure:

ble 1 – Unless otherwise agreed		Port	Terminal	
1.	Initiation of electrical infrastructure construction including design		~	
2.	Responsibility to provide equipment or necessary electrical infrastructure inside of the terminal		\checkmark	
3.	Responsibility to maintain electrical infrastructure inside of the terminal		~	
4.	Responsibility of uncontrolled emissions at berth due to incomplete electrical infrastructure construction		\checkmark	
5.	Responsibility of uncontrolled emissions during repair of electrical infrastructure/equipment		~	
6.	Submission of terminal plan		1	
7.	Submission of port plan	1		

Note: this plan does not amend or modify the terms and/or the conditions of ITS's preferential assignment agreement and other agreements with the Port, including without limitation expiration dates, nor does it amend or modify the terms and/or conditions of any agreements of the Port of Long Beach and/or of ITS with other entities nor does it modify or diminish any other obligations of other entities to the Port of Long Beach and/or ITS.

The G236 wharf extension project is led by the Port of Long Beach. As part of the G236 Wharf extension project, the Port is responsible for designing and repositioning one SPO to support larger ship connections. ITS is responsible for providing space and access for Port contractors.

Are there any contractual limitations applicable to the terminal relevant to enacting the infrastructure? If yes, describe. Not at this time.

Port approval of responsibilities:

The Port's responsible officer confirms by signing below that he/she has reviewed the division of responsibilities set forth in Sec 4 of this At Berth Terminal 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 the Terminal Operator's proposed compliance strategy set forth in this At Berth Terminal Plan.

Name: Mario Cordero	Title: Executive Director
Port: Port of Long Beach	
Signature: Mui (uns	Date: 12/01/2021
5. SIGNATURE OF TERMINAL OPERATOR	
By signing below, the Terminal Operator's responsible he/she has reviewed this At Berth Terminal Plan and [Terminal Operator's] compliance strategy for the A understands this plan is subject to verification by CA	is submitting this At Berth Terminal Plan as t Berth Regulation. [Terminal Operator]
Name: Chastopher Rapp	Title: VICC President
Signature:	Date: 12/11/2/



Attachment C:

Terminal Plan for Pacific Maritime Services

tana sa kanakara kanana Kana sa kana



Pacific Maritime Services, LLC (also known as Pacific Container Terminal (PCT)) 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	中国的大学和中国的大学的大学的大学的大学的
Terminal Contact Name:	
Phone Number:	Email:
Berths Included in this Plan:	
Name:	Approximate Geographic Boundary Coordinates:
1. 1245	1. Berth 0-2000 Feet (33.44.25 N, 118.11.53
2. J266	W)
3. 1270	2. Berth 0-1450 Feet (33.44.11 N, 118.11.31 W)
	3. Berth 1450- 2600 Feet (33.44.11N,
	118.11.19 W)
*The number of herths on a terminal and the soutial pos	itioning of berths are dependent on vessel size; thus, the
geographic boundary coordinates are approximates only	
2. STRATEGY DETAILS	
Strateg(ies) used to comply with the requirements [for ocean-going vessels visiting each berth:
1. SHORE POWER ONLY (SPO)	
2.1 [Strategy 1]	
Identification and description of all necessary equip	
Equipment:	Location:
1. Existing Shore Power Outlets	1. Shore/Wharf
1. Existing shore Power Outlets	I. Shoey which
Number of vessels expected to use this strategy (ar	nnual): 50
Number of vessel visits expected to use this strates	(annual); 125
Berths where equipment will be used:	
1. 18245	
2. 18266	
3. LB270	
	V COMPLETE/ NO SCHEDULE NEEDED
Project: Not applicable	Estimated Completion Date: Not applicable



3. TERMINAL OPERATOR/PORT BERTHING RESTRICTIONS

Are there any terminal or part specific berthing restrictions? If yes, please describe. LB245-PORT SIDE ONLY LB266- STARBOARD SIDE ONLY LB270- STARBOARD SIDE ONLY

4. DIVISION OF ROLES AND RESPONSIBILITIES

Division of responsibilities for enacting infrastructure:

Note: this plan does not amend or modify the terms and/or the conditions of Pacific Maritime Services, LLC's preferential assignment agreement and other agreements with the Port, including without limitation expiration dates, nor does it amend or modify the terms and/or conditions of any agreements of the Port of Long Beach and/or of Pacific Maritime Services, LLC with other entities nor does it modify or diminish any other obligations of other entities to the Port of Long Beach and/or Pacific Maritime Services, LLC.

	Port	Terminal
Initlation of electrical infrastructure construction including design		1
Responsibility to provide equipment or necessary electrical infrastructure inside of the terminal		1
Responsibility to maintain electrical infrastructure inside of the terminal		1
Responsibility of uncontrolled emissions at berth due to incomplete electrical infrastructure construction		1
Responsibility of uncontrolled emissions during repair of electrical infrastructure/equipment		1
Submission of terminal plan		1
Submission of port plan	~	



Are there any contractual limitations applicable to the terminal relevant to enacting the infrastructure? If yes, describe. None currently known.

Port approval of responsibilities:

Set forth in Section 4 of this At Berth Terminal Plan, the Port's responsible officer confirms by signing below that he/she has reviewed the division of responsibilities and agrees to them under penalty of perjury. The Port does not make any representations or attestations about the accuracy, feasibility, or legality of Pacific Maritime Services, LLC's proposed compliance strategy set forth in this At Berth Terminal Plan.

Name:	MARIO	CORDERDTitle:	Executive	Orrector
Port:				
Signature:	N A	Date:		
	Juni .	(mini	NO04 171	2021
••				

5. SIGNATURE OF TERMINAL OPERATOR				
By signing below, Pacific Maritime Services, LLC's responsible officer confirms under penalty of perjury that he/she has reviewed this At Berth Terminal Plan and is submitting this At Berth Terminal Plan as Pacific Maritime Services, LLC's compliance strategy for the At Berth Regulation. Pacific Maritime Services, LLC understands this plan is subject to verification by CARB staff.				
Name: SAC FORTIS IN Title: VP				
Signature:	Date: 10 26/21			



Attachment D:

Terminal Plan for Long Beach Container Terminal





LBCT LLC 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.

Terminal Contact Name: Long Beach C	Container Terminal (LBCT LLC)		
Phone Number: 562-951-6000 Email: POC: sse@lbct.com			
Berths Included in this Plan:	1		
Name:	Approximate Geographic Boundary Coordinates: *		
1. E22	1. 33.75435 - 118.21552		
2. E24	2. 33.75815 - 118.21590		
3. E26	3. 33.75952 - 118.214781		

*The number of berths on a terminal and the spatial positioning of berths are dependent on vessel size; thus, the geographic boundary coordinates are approximating only.

2. STRATEGY DETAILS

Strategy(ies) used to comply with the requirements for ocean-going vessels visiting each berth: 1. shore power

LBCT LLC will also consider the use of other CARB-approved emission control strategies during extenuating circumstances, such as the arrival of ships without shore power capabilities and on-terminal shore power infrastructure repair. However, shore power will remain LBCT LLC's primary strategy for compliance.

2.1 [Strategy 1]

Identification and description of all necessary equipment: Equipment: Location: 1. wharf

1. electrical infrastructure and outlet

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Number of vessel <u>visits</u> expected to use this		
Berths where equipment will be used:		
1. E22		
2. E24		
3. E26		
7. J. J. J. C 11:		
Schedule for installing equipment:		
Project:	Estimated Completion Date:	
 electrical infrastructure and outlet 	1. In place	

3. TERMINAL OPERATOR/PORT BERTHING RESTRICTIONS

Are there any terminal or port specific berthing restrictions? If yes, please describe. No current restrictions

4. DIVISION OF ROLES AND RESPONSIBILITIES

Division of responsibilities for enacting infrastructure:

The electrical infrastructure to support shore power plug-in at LBCT LLC, known as Long Beach Container Terminal, as of December 1, 2021 was designed, bid, and built by the Port of Long Beach (POLB). The terminal roles and responsibilities pertaining to the completed electrical infrastructure at LBCT LLC are:

- Maintain electrical infrastructure inside terminal lease boundaries.
- Control emissions during repair of electrical infrastructure/ equipment.

Additional shore power infrastructure is not required at LBCT LLC to meet the January 1, 2023 deadline. However, should additional electrical infrastructure be deemed necessary in the future, the roles and responsibilities of the terminal are:

- Initiation of electrical infrastructure construction including design.
- Provide equipment or necessary electrical infrastructure inside of the terminal.
- Maintain electrical infrastructure inside of the terminal.
- Control emissions at berth due to incomplete electrical infrastructure construction.
- · Control emissions during repair of electrical infrastructure/equipment.

The POLB is responsible for submitting the Port Plan, and LBCT LLC is responsible for submitting this Terminal Plan to the California Air Resources Board (CARB).

Note: this plan does not amend or modify the terms and/or the conditions of LBCT LLC's preferential assignment agreement and other agreements with the POLB, including without

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limitation expiration dates, nor does it amend or modify the terms and/or conditions of any agreements of the POLB and/or of LBCT LLC with other entities nor does it modify or diminish any other obligations of other entities to the POLB and/or LBCT LLC.

Are there any contractual limitations applicable to the terminal relevant to enacting the infrastructure? If yes, describe. There are no identified contractual limitations.

Port approval of responsibilities:

The POLB responsible officer confirms by signing below that he/she has reviewed the division of responsibilities set forth in Section 4 of this At Berth Terminal Plan and agrees to them under penalty of perjury. The POLB does not make any representations or attestations about the accuracy, feasibility, or legality of the LBCT LLC's proposed compliance strategy set forth in this At Berth Terminal Plan.

Name:	M	(Title:	Executive	Director
Port: Port of	Long Beach	\cup			
Signature:	MARIO	CORDEL	Date:	Novembe	1 22,2021

5. SIGNATURE OF TERMINAL OPERATOR

By signing below, LBCT LLC's responsible officer confirms under penalty of perjury that he/she has reviewed this At Berth Terminal Plan and is submitting this At Berth Terminal Plan as LBCT LLC's compliance strategy for the At Berth Regulation. LBCT LLC understands this plan is subject to verification by CARB staff.

Name: Bill Carson	Title: Director, SSE	
Signature:	Date: 11/1/2021	

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Attachment E:

Terminal Plan for SSA Terminals Pier A



SSA Terminals (Pier A), LLC (SSA) 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 8erth in a California Port.

1. GENERAL INFORMATION	As S & Harrison and a second
Terminal Contact Name: Mike Patalano	
Phone Number: (562) 495-8657	Email: Mike.Patalano@SSAMarine.com
Berths Included in this Plan:	
Name:	Approximate Geographic Boundary Coordinates:
1. A90	1. 33.46.10 N, 118.13.45 W
2. A92	2. 33.46.08 N, 118.13.56 W
3. A94	3. 33.46.05 N, 118.14.07 W
*The number of berths on a terminal and the spatial po	sitioning of berths are dependent on vessel size; thus, the
geographic boundary coordinates are approximates on 2. STRATEGY DETAILS	<u>ly.</u>
Strateg(les) used to comply with the requirements	for other point work building and building
1. SHORE POWER ONLY (SPO)	for ocean-going vessels visiting each berth:
2.1 [Strategy 1]	
Identification and description of all necessary equi	pment:
Equipment:	Location:
1. Existing Shore Power Outlets	1. Shore/Wharf
Number of vessels expected to use this strategy (a	
Number of vessel visits expected to use this strate	gy (annual): 350
Berths where equipment will be used:	
1. A90	
2. A92	
3. A94	
	N COMPLETE/ NO SCHEDULE NEEDED
Project:	Estimated Completion Date:
MatApplicable	Made Anna March In
Not Applicable	Not Applicable



3. TERMINAL OPERATOR/PORT BERTHING RESTRICTIONS

Are there any terminal or port specific berthing restrictions? If yes, please describe. A90: Port Side Only A92: Port Side Only A94: Port Side Only

4. DIVISION OF ROLES AND RESPONSIBILITIES

Division of responsibilities for enacting infrastructure:

Note: this plan does not amend or modify the terms and/or the conditions of SSA's preferential assignment agreement and other agreements with the Port, including without limitation expiration dates, nor does it amend or modify the terms and/or conditions of any agreements of the Port of Long Beach and/or of SSA with other entities nor does it modify or diminish any other obligations of other entities to the Port of Long Beach and/or SSA.

	Port	Terminal
Initiation of electrical infrastructure construction including design		✓ <i>✓</i>
Responsibility to provide equipment or necessary electrical infrastructure inside of the terminal	. <u> </u>	
Responsibility to maintain electrical infrastructure inside of the terminal		1
Responsibility of uncontrolled emissions at berth due to incomplete electrical infrastructure construction		~
Responsibility of uncontrolled emissions during repair of electrical infrastructure/equipment		
Submission of terminal plan		
Submission of port plan	1	



Are there any contractual limitations applicable to the terminal relevant to enacting the infrastructure? If yes, describe. None currently known.

Port approval of responsibilities:

Set forth in Section 4 of this At Berth Terminal Plan, the Port's responsible official confirms by signing below that he/she has reviewed the division of responsibilities and agrees to them under penalty of perjury. The Port does not make any representations about the accuracy, feasibility, or legality of SSA Terminals (Pier A), LLC's proposed compliance strategy set forth in this At Berth Terminal Plan.

Name:	MA RIO	Logoce o Title:	Executive Director
Port:			
Signature:	Mu.	Date:	Ney 17,2021
	· \		

5. SIGNATURE OF TERMINAL OPERATOR

By signing below, SSA Terminals, (Pier A), LLC's responsible official confirms under penalty of perjury that he/she has reviewed this At Berth Terminal Plan and is submitting this At Berth Terminal Plan as SSA Terminals (Pier A), LLC's compliance strategy for the At Berth Regulation. SSA Terminals (Pier A), LLC. understands this plan is subject to verification by CARB staff.

Name: SAL FENRIGNO	Title: VP
Signature:	Date: 10/26/21



Attachment F:

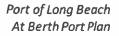
Terminal Plan for SSA Terminals (Pier C)



SSA Terminals, LLC (SSA) 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: Ryan Baird	
Phone Number: (562) 495-8657	Email: Ryan.Baird@SSAMarine.com
Berths Included in this Plan:	
Name:	Approximate Geographic Boundary Coordinates:
1. C62	1. Berth 900-1800 Feet (33.46.11 N,
2. C60	118.13.03 W)
	2. Berth 0-899 Feet (33.46.13 N, 118.12.57
	W)
	tet at a stand to stand the second stand the stand
	sitioning of berths are dependent on vessel size; thus, the
geographic boundary coordinates are approximates on	y.
2. STRATEGY DETAILS Strateg(ies) used to comply with the requirements	for ocean-going vessels visiting each berth:
1. SHORE POWER ONLY (SPO)	for occan-going vessels thinking call bertin
1. SHOKE FOWER ONET (SFO)	
2.1 [Strategy 1]	
Identification and description of all necessary equi	pment:
Equipment:	Location:
1. Existing Shore Power Outlets	1. Shore/Wharf
_	
Number of vessels expected to use this strategy (a	annual): 12
Number of vessel visits expected to use this strate	gy (annual): 104
Berths where equipment will be used:	
1. C62	
2. C60	
	ON COMPLETE/ NO SCHEDULE NEEDED
Project:	Estimated Completion Date:
_Not Applicable	Not Applicable





3. TERMINAL OPERATOR/PORT BERTHING RESTRICTIONS

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

C62- STARBOARD SIDE ONLY C60- STARBOARD SIDE ONLY

4. DIVISION OF ROLES AND RESPONSIBILITIES

Division of responsibilities for enacting infrastructure:

Note: this plan does not amend or modify the terms and/or the conditions of SSA's preferential assignment agreement and other agreements with the Port, including without limitation expiration dates, nor does it amend or modify the terms and/or conditions of any agreements of the Port of Long Beach and/or of SSA with other entitles nor does it modify or diminish any other obligations of other entities to the Port of Long Beach and/or SSA.

	Port	Terminal
Initiation of electrical infrastructure construction including design		1
Responsibility to provide equipment or necessary electrical infrastructure inside of the terminal		1
Responsibility to maintain electrical infrastructure inside of the terminal		1
Responsibility of uncontrolled emissions at berth due to incomplete electrical infrastructure construction		1
Responsibility of uncontrolled emissions during repair of electrical infrastructure/equipment		1
Submission of terminal plan		1
Submission of port plan	J	





Are there any contractual limitations applicable to the terminal relevant to enacting the infrastructure? If yes, describe. None currently known.

Port approval of responsibilities:

Set forth In Section 4 of this At Berth Terminal Plan, the Port's responsible official confirms by signing below that he/she has reviewed the division of responsibilities and agrees to them under penalty of perjury. The Port does not make any representations about the accuracy, feasibility, or legality of SSA Terminal, LLC's proposed compliance strategy set forth in this At Berth Terminal Plan.

Name:	MARIO	CORDERO	Title:	Executive	Director
Port:				1994 A	
Signature:	Ma	(Date:	Nov 17	(2022)

5. SIGNATURE OF TERMINAL OPERATOR	的國家的政治的自己的思想的自己的法律的问题。						
By signing below, SSA Terminals, LLC's responsible official confirms under penalty of perjury that							
he/she has reviewed this At Berth Terminal Plan and is submitting this At Berth Terminal Plan as SSA							
	erth Regulation. SSA Terminals, LLC understands this						
plan is subject to verification by CARB staff.							
Name: SAL FERFIGIO	Title: V P						
Signature: M.]	Date: 10 26 21						



Attachment G:

Terminal Plan for Chemoil



Chemoil Terminals LLC At Berth Terminal Plan

Chemoil Terminals LLC 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: Justin Avril	
Phone Number: 562-485-4205	Email: justin.avril@chemoil.com
Berths Included in this Plan:	
Name:	Approximate Geographic Boundary Coordinates:*
1. Long Beach Berth F209	1. 33.74 North 118.21 W
*The number of berths on a terminal and the spatial pos	. 그 옷은 것 같은 것이 같은 것 같아요. 한 것 같아요. 한 것 같아요. 같이 같아요. 같이 많은 것을 하는 것 같아요. 같이 많은 것 같아요. 같이 많은 것 같아요. 같이 많은 것 같아요. 그 가 나라 가 나라 가 나라 가 다 다 나라 다 다 나라 가 다 다 나라 다 다 다 나라 다.
geographic boundary coordinates are approximates only	
2. STRATEGY DETAILS	
Strateg(ies) used to comply with the requirements j	for ocean-going vessels visiting each berth:
1. Shore Power.	
2.1 Shore Power	
Identification and description of all necessary equip	ment.
Equipment:	Location:
1. Conduit and power conductors from Pier	1. Wharf
F Street to transformer location at B-F209	1. What
	2. Wharf
 Stepdown transformer and switchgear. Cable reel with cables and receptacles. 	3. Wharf
 Cable reel with cables and receptacles. Communications cable reel for shore to 	4. Wharf
	4. What
ship power systems communication.	5. Wharf
5. Lifting boom to lift power cables and	5. What
receptacles up to the vessel from the berth.	
Number of <u>vessels</u> expected to use this strategy (ar	anual): 65
Number of vessels expected to use this strategy (and Number of vessel visits expected to use this strategy)	
	y (annual): 05
Berths where equipment will be used:	
1. Long Beach Berth F209.	
Schedule for installing equipment:	
Project:	Estimated Completion Date:
1. All equipment listed above.	1. Q3 2024

3. TERMINAL OPERATOR/PORT BERTHING RESTRICTIONS

Are there any terminal or port specific berthing restrictions? If yes, please describe. Vessels berth Port Side to the dock and berth is restricted to 39 feet 6 inches draft on all vessels.



Chemoil Terminals LLC At Berth Terminal Plan

4. DIVISION OF ROLES AND RESPONSIBILITIES

Division of responsibilities for enacting infrastructure:

	Port	Terminal
Initiation of electrical infrastructure construction including design		1
Responsibility to provide equipment or necessary electrical infrastructure inside of the terminal		~
Responsibility to maintain electrical infrastructure inside of the terminal	3	\checkmark
Responsibility of uncontrolled emissions at berth due to incomplete electrical infrastructure construction		\checkmark
Responsibility of uncontrolled emissions during repair of electrical infrastructure/equipment		~
Submission of terminal plan		1
Submission of port plan	1	

Note: this plan does not amend or modify the terms and/or the conditions of Chemoil Terminals LLC's lease and other agreements with the Port, including without limitation expiration dates, nor does it amend or modify the terms and/or conditions of any agreements of the Port of Long Beach and/or of Chemoil Terminals LLC's with other entities nor does it modify or diminish any other obligations of other entities to the Port of Long Beach and/or Chemoil Terminals LLC's.

Chemoil Terminals LLC's lease expires 06/30/2025. Roles and responsibilities may be updated in a new or amended lease agreement. Any changes to roles and responsibilities will be updated in an amended plan sent to CARB.

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

None known by Chemoil Terminals LLC.

Port approval of responsibilities:

Set forth in Section 4 of this At Berth Terminal Plan, the port's responsible official confirms by signing below that he/she has reviewed the division of responsibilities and agrees to them under penalty of perjury. The Port does not make any representations about the accuracy, feasibility, or legality of Chemoil Terminals LLC's 's proposed compliance strategy set forth in this At Berth Terminal Plan.

Name:	MARIO	6	ORDERD	Title:	Ster	cotixe	Director
Port:	Long	Bea	ch				and the second second second second
Signatur	e:	le.	(-5-	Date:		2213	1
			\subseteq			1	



Chemoil Terminals LLC At Berth Terminal Plan

5. SIGNATURE OF TERMINAL OPERATOR

By signing below, the Terminal Operator's responsible officer confirms under penalty of perjury that he/she has reviewed this At Berth Terminal Plan and is submitting this At Berth Terminal Plan as Chemoil Terminals LLC compliance strategy for the At Berth Regulation. Chemoil Terminals LLC understands this plan is subject to verification by CARB staff.

Name: Vincent P. G	iodfrey		Title: Vice	Presider	nt	
Signature:	P. Sol	he	Date:	119	21	
0	V	1				

Attachment H:

Terminal Plan for SSA Pacific

Terminal Plan

Pier F, Port of Long Beach; Terminal Operator and Responsible Official: SSA Pacific Inc, Bill Fitz on behalf of the two Pier F lessees (Crescent Terminals, Inc. and CSA Equipment Company, LLC)

Pier F is a 22-acre (8.9 hectare) breakbulk cargo terminal with four contiguous berths (designated 204, 205, 206 and 207) totaling 2,400 linear feet (732 meters) operated by SSA Pacific.

Pier F Strategy: Provide shore power to Pier F allowing for two simultaneously berthed roll-on/roll-off (RoRo) vessels and accommodate vessel operators' use of CARB-approved innovative solutions when vessels aren't equipped to plug in to shore power

The proposed new shore power infrastructure investments will take significant time and resources to implement and RoRo vessel owners calling Pier F will need to retrofit or build new vessels with vessel-side shore power-capable connections. As such, to augment our strategy within the near-term compliance timeline, we encourage and embrace third-party vendors that can achieve CARB approvals for their innovative concept solutions (see Item "H" below) to provide services to vessel operators when shore power is not feasible at the berth.

A. Identification and Description of all Necessary Equipment

Outside of the Pier F terminal (Utility Provider and Port Authority responsibility), equipment required to extend shore power to the terminal includes:

	Location			
Item/Description	Vessel	Wharf	Shore	Elsewhere
High-Voltage (HV) supply system				~
HV distribution (right-of-way, overhead or underground lines) from supply to Shore Power Vault System				\checkmark

Within the Pier F terminal (Terminal Operator responsibility), equipment to extend shore power to the berths includes:

	Location			
Item/Description	Vessel	Wharf	Shore	Elsewhere
Shore Power Substation			\checkmark	
Electrical Controls to comply with IEC/IEEE 80005-1 and SEC regulations			\checkmark	
Medium Voltage Conduit and Wiring		✓ ·	\checkmark	
Shore Power Vaults		✓		
Cable Management System		\checkmark		
Vessel-side infrastructure to connect to shore power system (provided by vessel owner, retrofit or newbuild vessels, shore power capable)	~			

B. Forecasted Vessel Volume

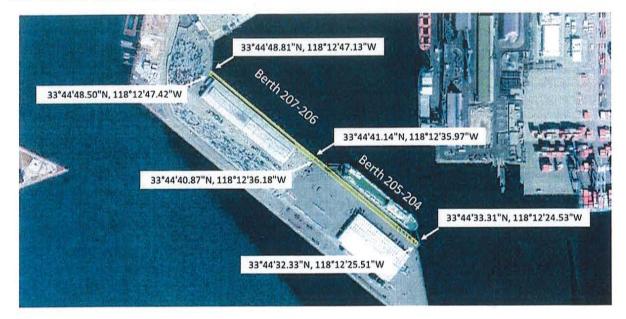
Pier F's 5-year vessel call forecast horizon (2022-2027) anticipates 95-100 vessels per year:

- 35-40 WWL (26-hour call, berth 204-205)
- 60 pure RoRo (12-hour call, berth 206-207)

Note: due to the typical RoRo vessel length overall (LOA), the combined 204-205 berths are considered one RoRo berthing position and the combined 206-207 berths are considered one RoRo berth position, allowing Pier F to berth and operate two RoRo vessels simultaneously.

C. List of Each Berth with Coordinates

Pier F, Port of Long Beach, California





D. Berth Location

Compliance equipment will be used at the Port of Long Beach's Pier F, Berths 204-205 and 206-207.

E. Terminal/Port-Specific Berthing Restrictions

Pier F anticipates no Terminal or Port-specific berthing restrictions.

F. Implementation Schedule

New on-terminal shore power equipment installations will be required at the berths to serve up to two RoRo ships simultaneously. Upon plan approval, we expect the design, permitting, bid, construction, and commissioning of the shore power infrastructure to take up to four years.

RoRo Shore Power Element	Responsibility	Planning, Permitting and Design Duration	Construction and Commissioning Duration	Total Duration
On-Terminal and Berth Infrastructure (at berths 206-207 and 204-205)	Terminal Operator	Up to 2 Years	Up to 2 Years	Less than 4 Years Allows for overlap of Planning/Design/ Permitting with Construction



G. Division of Responsibilities: Terminal Operator and the Port

Considerations for implementing shore power stemming from CARB's At-Berth Regulations has been specifically incorporated into the "Third Amendment to Preferential Assignment Agreement HD-6517", the lease and operating agreement for the use of the Port of Long Beach Pier F marine terminal facility by Crescent Terminals, Inc. and CSA Equipment Company LLC, whom collectively has assigned SSA Pacific as the Terminal Operator.

Responsibility	Port	Terminal Operator
Submission of Terminal Plan per Section 93130.14(a)		\checkmark
Submission of Port Plan per Section 93130.14(b)	\checkmark	
Initiation of on-terminal terminal shore power design, permitting and construction (from substation to berth)		\checkmark
Responsibility to provide shore power equipment or necessary shore power infrastructure inside of the terminal		\checkmark
Responsibility to maintain shore power infrastructure inside of the terminal		\checkmark
Responsibility of uncontrolled emissions at berth due to incomplete shore power infrastructure construction (from substation to vessel connection)		\checkmark
Communicate and coordinate with vessel prior to arrival		\checkmark
Ensure proper positioning of vessel		\checkmark
Connect vessels to shore power when called by a commissioned shore power- enabled vessel		\checkmark
Submit vessel visit information and wharfinger data to CARB per regulation requirements	\checkmark	~
Responsibility of uncontrolled emissions from repair of shore power infrastructure/equipment		\checkmark

Note: this plan does not amend or modify the terms and/or the conditions of SSA Pacific's preferential assignment agreement and other agreements with the Port, including without limitation expiration dates, nor does it amend or modify the terms and/or conditions of any agreements of the Port of Long Beach and/or of SSA Pacific with other entities nor does it modify or diminish any other obligations of other entities to the Port of Long Beach and/or SSA Pacific.



Port approval of responsibilities:

Set forth in Section G of this At Berth Terminal Plan, the Port's responsible official confirms by signing below that he/she has reviewed the division of responsibilities and agrees to them under penalty of perjury. The Port does not make any representations about the accuracy, feasibility, or legality of SSA Pacific's proposed compliance strategy set forth in this At Berth Terminal Plan.

Name:	MARIO	CORDERO	Title:	Skecotive	Diretor
Port:					
Signature:	Mu.	(m5	Date:	Noy 17.	2021
		\sim			



H. Other Emission Control Options

As a Terminal Operator, our primary concern is providing safe and efficient operations compliant with all regulatory requirements. We do not assert that a physical and/or operational constraint will delay our ability to implement our preferred shore power strategy. However, the time required to design, permit and construct the solution by the January 1, 2025 Compliance Start Date will be challenging. As such we remain fully supportive and enthusiastic that third-party providers will respond to market demand and develop CARB-approved emission control solutions providing on-demand services to Vessel Operators when calling Pier F, for example:

- Fuel Cell Technology Vessel-side or shore-based modular, self-contained and portable zero- emission fuel cell systems connecting to vessels in much the same manner as gridbased shore-power solutions. Fuel cell solutions would require vessel retrofit. The terminal operator would accommodate space requirements for the fuel cell arrays and potentially their associated hydrogen production and storage facilities.
- Capture and Control Systems Barge-based or shore-based technology configurations designed to capture and treat exhaust emissions from ocean-going RoRo vessels while at berth, regardlessof that vessel's stack design or funnel characteristics. Capture and Control vendors would coordinate services directly with the vessel's agent and vessel operator. The Terminal Operator would accommodate the vendor's services while the vessel is at berth.

Terminal Responsible Official Signature

By signing below, SSA Pacific's Responsible Official confirms under penalty of perjury that he has reviewed this Terminal Plan and is submitting this Terminal Plan as SSA Pacific's compliance strategy for the At Berth Regulation on behalf of SSA Pacific Inc and the two lessees of Pier F (Crescent Terminals, Inc and CSA Equipment Company, LLC). SSA Pacific understands this plan is subject to verification by CARB staff.

Title: Regional Vice President, SSA Pacific Inc. Name: Bill FItz Date: Signature:



3

Attachment I:

Terminal Plan for Tesoro Logistics (Terminal 2)



Tesoro Logistics Operations LLC 1300 Pier B Street " Long Beach CA 90813

January 31, 2024

Email: <u>shorepower@arb.ca.gov</u> California Air Resources Board Transportation and Toxics Division Freight Activity Branch, Marine Strategies Section P.O Box 2815 Sacramento, CA 95812

Subject: CCR Title 17 Section 93130 – 93130.22 Revised Terminal Plans

Dear Executive Officer:

In accordance with the California Code of Regulations Title 17, sections 93130 – 93130.22 Control Measure for Ocean-Going Vessels At Berth, Tesoro Logistics Operations LLC (TLO) hereby submits the Revised Terminal Plans for Terminal 1, Terminal 2, and Long Beach Terminal.

If questions arise pertaining to the submission of TLO's Revised Terminal Plans, please contact Lynnea Giordani at LLGiordani@Marathonpetroleum.com.

Sincerely,

layes Timothy W. Hayes Region Manager

Region Mana

Cc: <u>acsondes@arb.ca.gov</u> <u>Bonnie.Soriano@arb.ca.gov</u> <u>Jonathan.Foster@arb.ca.gov</u>

Tesoro Logistics Operations LLC (TLO)* Terminal 2, Long Beach At Berth Terminal Plan

This terminal plan has been prepared pursuant to 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.

*Tesoro Logistics Operations LLC is the terminal operator for Tesoro Refining & Marketing Company LLC, the leaseholder with the Port of Long Beach.

1. GENERAL INFORMATION	
Terminal Contact Name: Timothy Hayes	
Phone Number: 562-499-2249	Email: twhayes@marathonpetroleum.com
Berths Included in this Plan:	
Name:	Approximate Geographic Boundary Coordinates:
1. Berth B77	1. 33.77580, -118.21300
2. Berth B78	2. 33.77501, -118.21501
Berth B76 handles liquids but is barge only.	
Berths B79 and B80 do not handle liquids.	
*The number of berths on a terminal and the spatial per-	
*The number of berths on a terminal and the spatial pos geographic boundary coordinates are approximates only	itioning of berths are dependent on vessel size; thus, the
2. STRATEGY DETAILS	
Strategies used to comply with the requirements for	Ocean-aoing vessels visiting each herth
	eccan going vessels visiting each bertin.
Provided technology is sufficiently developed to ope	erate with an acceptable level of personal and
process safety risk, TLO plans to employ the following	ng strategies:
1. Vendor-Provided and CARB-Approved Barge	e-Based Capture and Control (C&C) System as a
CARB-Approved Emission Control Strategy (CAECS)
 CARB-Approved Innovative Concept – See T Beach 	LO's Innovative Concept Application for Long
 Terminal Shore Power System - land-based s vessel 	system to supply electricity from the grid to a
vesser	
TLO may rely on a combination of these strategies to	beln reduce emissions from vessels at TLO's
berths.	the reduce chills for the ressets at TEO'S
2.1 Strategy 1: Vendor-Provided and CARB-Approve	ed Barge-Based Capture and Control
Identification and description of all necessary equipm	nent:
	Location:
1. Vendor-Provided and CARB-Approved	1. Terminal 2, Berths B77, B78
Barge-Based Capture and Control System	
a. Fully contained barge system	
including collection system and	
treatment system	

Number of vessels expected to use this strategy (annual): 25

Number of vessel visits expected to use this strategy (annual): 100

Berths where equipment will be used:

1. Berth 77

2. Berth 78

Schedule for installing equipment: <u>Project:</u> Vendor-Provided and CARB-Approved Barge-

Based Capture and Control (C&C) System

Estimated Completion Date:

As of the date of this plan, a Vendor-Provided and CARB-Approved barge-based capture and control system does not exist. The estimated completion date is projected based on current knowledge and development status of the systems being proposed.

9/1/2027*

 C&C estimate assumes technology is proven safe, controls all emission sources required in the Regulation, and the CARB Executive Officer has approved a minimum of two independent vendors by the end of 2024.

*Any unmitigated risks detailed below may result in a change to the Estimated Completion Date stated above.

- Full resolution of considerations identified in the Safety Study under the CARB grant for C&C Systems for Oil Tanker Project awarded to SCAQMD where TLO resources are actively supporting advancement as a demonstration partner.
- Full resolution of considerations from future safety studies and hazard assessments which TLO anticipates and view as necessary to ensure safe operations on tanker vessels
- Stack connection/collection design demonstrates:
 - Ability to capture emissions from a variable set of stack configurations without damaging the vessel's exhaust stacks.
 - Ability to capture emissions without introducing backpressure in the vessels exhaust systems.

	 continuity) Ability of the connection/collection design to accommodate vessel draft and pitch changes due to cargo operations Ability of connection/collection system to adequately transport a wide range of flow rates from multiple stacks Ability to capture emissions without placing an individual in harm's way
	 Barge congestion and siting around version
	 vessels C&C barges must not interfere with adjacent vessel traffic in the port C&C barges must not interfere with containment boom C&C barge mooring systems must not impact submerged utilities crossing navigational channels C&C barge must not hinder the vessel from being able to meet California State Lands 30-minute departure requirements Implementation of adequate emergency preparedness to ensure safety of bargebased system operators near hazardous cargo Treatment system performance meets or exceeds emission reduction requirements for all emissions sources that are required to be controlled on tankers To prevent monopolization of services, a minimum of two vendors needs to be approved.
Physical or Operational Constraints Project:	
Vendor-Provided and CARB-Approved Barge- Based Capture and Control (C&C) System	<u>Constraints:</u> As of the date of this plan, a Vendor-Provided and CARB-Approved barge-based capture and control system does not exist. Barge-based capture and control systems are still under development for tanker vessels. Until the systems are developed and demonstrated, a complete list of constraints

cannot be fully assessed and finalized. The following list is based on current knowledge of the systems being proposed and may be amended once a system has been demonstrated and approved.

- Physical Constraints
 - Impedance or blockage of traffic in the channel
- Operational Constraints
 - Lack of safe and/or readily available CARB-approved bargebased capture and control systems
 - Lack of tug availability to move CARB-approved barge-based capture and control systems around the port(s)/terminal(s)
 - Lack of adequate safeguards of the CARB-approved barge-based capture and control system
 - Incompatibility between the design of the CARB-approved capture and control barge and the terminal/vessel. This includes, but is not limited to:
 - Undersized C&C treatment system, leading to an inability to treat all the vessel's emissions required by the Regulation.
 - Connection/collection design incompatible with the vessel's stacks
 - Undersized spuds preventing the barge from being able to spud alongside the vessel
 - Inability to safely operate the C&C barge due to lack of visibility or access to the vessel
 - Insufficient barge operability or employee qualifications – barge hinderance of vessels ability to

Page 4 of 9

	meet California State Lands 30- minute departure requirements
	TLO participated in a technology assessment led by the DNV to evaluate emissions control strategies that could be used to meet the requirements of the Regulation. The physical and operational constraints listed above are included as additional constraints to what was identified by the DNV study. A copy of the DNV study is provided as an attachment to this plan.
2.2 Strategy 2: CARB-Approved Innovative Conce	
Identification and description of all necessary equi	ipment:
Equipment:	Location:
1. Innovative concept – see "Innovative	 Innovative concept – see "Innovative
Concept Application" submittal	Concept Application" submittal
Number of vessels expected to use this strategy (a	annual): TBD
Number of vessel visits expected to use this strate	gy (annual): TBD
Berths where equipment will be used:	
1. See "Innovative Concept Application" sub	mittal
Schedule for installing equipment:	
Project:	Estimated Completion Date:
1. See "Innovative Concept Application"	 See "Innovative Concept Application"
submittal	submittal
Physical or Operational Constraints	
Project:	Constraints:
CARB-Approved Innovative Concept	 Physical Constraints
	 See "Innovative Concept
	Application" submittal
	 Operational Constraints
	 See "Innovative Concept
	Application" submittal
2.3 Strategy 3: Terminal Shore Power System	
Identification and description of all necessary equip	ment:
Equipment:	Location:
2. Terminal Shore Power System	2. Terminal 2, Berths B77, B78
 Upgraded utility provider 	
infrastructure (transmission lines,	
substation transformers,	
switchgear)	
b. Transformers	
c. Power Distribution Center with	
electrical switchgear and motor	
controls	
d. Electrical Raceways and Wiring	
e. Cable Management Systems	
f. Fixed Cranes	
Number of <u>vessels</u> expected to use this strategy (an	nual): TBD - dependent on vessel adoption

Berths where equipment will be used:	is strategy (annual): TBD - dependent on vessel adoption
3. Berth 77	
4. Berth 78	
Schedule for installing equipment:	
Project:	Estimated Completion Date:
Terminal Shore Power System	 3/1/2029*
	 Shore Power schedule assumes
	electric utility provider can mee
	the proposed construction
	schedule and the grid is sufficier
	to handle the increased power
	demand.
	 Estimated completion date does
	not reflect timeline for vessels to
	convert to shore power.
	*Items below may impact the Estimated
	Completion Date
	 Delays in permitting or environmental clearances
	 Ability for electric utility provider to
	assess and supply the increased power demand
	 Equipment development resulting from
	industry guidance and standardization
	for tanker vessel shore power systems
	 Lead time and availability to procure
	shore power equipment developed from
	industry guidance and standardization
hysical or Operational Constraints	
oject:	Constraints:
erminal Shore Power System	Physical Constraints
	 A Method of Service study has
	been requested from the electric
	utility provider, Edison. Results
	from this study will validate
	whether physical constraints exist
	due to available space at the
	Terminal and new equipment
	required to be installed.
	 Inability to obtain California
	Environmental Quality Act (CEQA)
	clearance could impact the
	installation of a shore power
	system. TLO has submitted their
	Harbor Development Permit to

the Port of Long Beach and is awaiting final review.

- Operational Constraints
 - A Method of Service study has been requested from the electric utility provider, Edison. Results from this study will validate the timeline for Edison to provide the necessary power required of vessels. Edison's ability to provide the necessary power may impact the estimated completion date.
 - TLO's ability to implement a shore power system will be reliant on industry development and standardization of a shore power system for tanker vessels.
 - Manufactures do not currently offer shore power systems for terminals and tanker vessels.
 Engineering and development are required before procurement and implementation of a system can take place.

TLO participated in a technology assessment led by the DNV to evaluate emissions control strategies that could be used to meet the requirements of the Regulation. The physical and operational constraints listed above are included as additional constraints to what was identified by the DNV study. A copy of the DNV study is provided as an attachment to this plan.

2.4 Feasibility Studies

Section 93130.14(a)(3)(H) states 'A terminal operator claiming that a physical and/or operational constraint will delay its ability to implement its preferred CARB approved control strategy to achieve emission reductions from vessels at berth according to the requirements of section 93130 et seq., must also include with its terminal plan a technical feasibility study evaluating if there are any other emission control options that could be implemented more quickly at the terminal'.

As of the date of this plan, the only CARB approved control strategy is shore power. TLO has elected to invest in the implementation of a shore power system at its Terminal. Within this Terminal Plan, TLO has identified the operational and physical constraints which will delay the implementation of a shore power system according to the requirements of section 93130 et seq.

Due to the physical and operational constraints identified and to support CARB's request to evaluate if any other emission control options could be implemented more quickly at the Terminal, TLO conducted a feasibility study to assess implementation of additional technology. To TLO's best

knowledge, the only other technology which may be capable of meeting the requirements of section 93130 and not already being implemented by TLO is a land-based capture and control system. Based on the results of TLO's feasibility study to implement a land-based capture and control system, the estimated completion date aligned with the estimated completion date for a shore power system. In addition to dates, a physical constraint exists with the infrastructure due to the separate infrastructure required for a shore power system. Operational constraints, reflecting those identified for a barge-based system, also exist due to the needs to design a connection/collection system capable of safely capturing emissions from a variable set of stack configurations.

In summary, TLO believes all efforts have been exhausted to identify technologies capable of meeting the requirements of section 93130 which are not already being pursued through barge-based capture and control, a terminal shore power system, and innovative concepts. Industry studies, most notably the DNV Technology Assessment (attached), also did not identify alternative technologies which may be able to support the requirements of section 93130.

3. TERMINAL OPERATOR/PORT BERTHING RESTRICTIONS

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

- 1. Vessels calling at Berth B78 in crude petroleum and heavy intermediate petroleum product service are restricted to starboard side only.
- 2. Future dock enhancements necessary to accommodate shore power systems could necessitate additional berthing restrictions.
- 3. Underwater utilities located near the vessel berthing locations could restrict mooring systems for barge-based capture and control.

4. DIVISION OF ROLES AND RESPONSIBILITIES

Division of responsibilities:

Note: this plan does not amend or modify the terms and/or the conditions of Tesoro Refining & Marketing Company LLC's preferential assignment agreement and other agreements with the Port, including without limitation expiration dates, nor does it amend or modify the terms and/or conditions of any agreements of the Port of Long Beach and/or of Tesoro Refining & Marketing Company LLC with other entities nor does it modify or diminish any other obligations of other entities to the Port of Long Beach and/or Tesoro Refining & Marketing Company LLC.

	Port	Terminal
Initiation of electrical infrastructure construction including design		√
Responsibility to provide equipment or necessary electrical infrastructure inside of the terminal		\checkmark

February 2024

	✓
	1
	1
	\checkmark
\checkmark	
	↓

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

No limitations have been identified at this time.

Port approval of responsibilities:

Set forth in Section 4 of this At Berth Terminal Plan, the Port's responsible official confirms by signing below that he/she has reviewed the division of responsibilities and agrees to them under penalty of perjury. The Port does not make any representations about the accuracy, feasibility, or legality of Tesoro Refining & Marketing Company LLC proposed compliance strategy set forth in this At Berth Terminal Plan.

Name:	MARIO	GROERD	Title:	(20)		
Port:	Long	Beach				
Signature:	y y		Date:	. \		
	1 fe. f			1/29	124	

5. SIGNATURE OF TERMINAL OPERATOR

By signing below, Tesoro Logistics Operations LLC's responsible official confirms under penalty of perjury thathe/she has reviewed this At Berth Terminal Plan and is submitting this At Berth Terminal Plan as Tesoro Logistics Operations LLC's compliance strategy for the At Berth Regulation. Tesoro Logistics Operations understands this plan is subject to verification by CARB staff.

Name: Timothy Hayes Title: Region Manager	
Signature: Date: 1-15-24	
Implify Vales	



Attachment J:

Terminal Plan for Tesoro Logistics (LBT)

Tesoro Logistics Operations LLC (TLO)* Long Beach Terminal (LBT), Long Beach At Berth Terminal Plan

This terminal plan has been prepared pursuant to 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.

*Tesoro Logistics Operations LLC is the terminal operator for Tesoro Refining & Marketing Company LLC, the leaseholder with the Port of Long Beach.

1. GENERAL INFORMATION			
Terminal Contact Name: Timothy Hayes			
Phone Number: 562-499-2249	Email: twhayes@marathonpetroleum.com		
Berths Included in this Plan:			
Name:	Approximate Geographic Boundary Coordinates:		
1. Berth B84a	1. 33.77236, -118.22173		
2. Berth B86	2. 33.77104, -118.22411		
Berths B84a and B86 are the only berths at the			
terminal which receive tanker vessels.			
*The number of berths on a terminal and the spatial po	sitioning of berths are dependent on vessel size; thus, the		
geographic boundary coordinates are approximates on			
2. STRATEGY DETAILS			
Strategies used to comply with the requirements for ocean-going vessels visiting each berth:			
Provided technology is sufficiently developed to o	perate with an acceptable level of personal and		
process safety risk, TLO plans to employ the follow	ring strategies.		
1. Vendor-Provided and CARB-Approved Barge-Based Capture and Control (C&C) System as a			
CARB-Approved Emission Control Strategy (CAECS)			
2. CARB-Approved Innovative Concept – See TLO's Innovative Concept Application for Long			
Beach			
	system to supply electricity from the grid to a		
vessel			
TLO may rely on a combination of these strategies to help reduce emissions from vessels at TLO's berths.			
The second se	und Barga Basad Capture and Control		
2.1 Strategy 1: Vendor-Provided and CARB-Approved Barge-Based Capture and Control Identification and description of all necessary equipment:			
Equipment:	Location:		
1. Vendor-Provided and CARB-Approved	1. Long Beach Terminal, Berths B84a, B86		
Barge-Based Capture and Control System	1. Long beach reminal, berths bota, boo		
a. Fully contained barge system			
including collection system and			
treatment system			
er controlle system			

February 2024

Number of vessels expected to use this strategy (annual): 70

Number of vessel visits expected to use this strategy (annual): 190

Berths where equipment will be used:

1. Berth B84a

2. Berth B86

Schedule for installing equipment: Project:

Vendor-Provided and CARB-Approved Barge-Based Capture and Control (C&C) System

Estimated Completion Date:

As of the date of this plan, a Vendor-Provided and CARB-Approved barge-based capture and control system does not exist. The estimated completion date is projected based on current knowledge and development status of the systems being proposed.

9/1/2027*

 C&C estimate assumes technology is proven safe, controls all emission sources required in the Regulation, and the CARB Executive Officer has approved a minimum of two independent vendors by the end of 2024.

*Any unmitigated risks detailed below may result in a change to the Estimated Completion Date stated above.

- Full resolution of considerations identified in the Safety Study under the CARB grant for C&C Systems for Oil Tanker Project awarded to SCAQMD where TLO resources are actively supporting advancement as a demonstration partner.
- Full resolution of considerations from future safety studies and hazard assessments which TLO anticipates and view as necessary to ensure safe operations on tanker vessels
- Stack connection/collection design demonstrates:
 - Ability to capture emissions from a variable set of stack configurations without damaging the vessel's exhaust stacks.
 - Ability to capture emissions without introducing backpressure in the vessels exhaust systems.

0	Ability to capture emissions	
	without creating sparks	
	(electrical continuity)	
	10	

 Ability of the connection/collection design to accommodate vessel draft and pitch changes due to cargo operations

 Ability of connection/collection system to adequately transport a wide range of flow rates from multiple stacks

 Ability to capture emissions without placing an individual in harm's way

 Barge congestion and siting around vessels

> C&C barges must not interfere with adjacent vessel traffic in the port

• C&C barges must not interfere with containment boom

 C&C barge mooring systems must not impact submerged utilities crossing navigational channels

 C&C barge must not hinder the vessel from being able to meet California State Lands 30-minute departure requirements

 Implementation of adequate emergency preparedness to ensure safety of bargebased system operators near hazardous cargo

 Treatment system performance meets or exceeds emission reduction requirements for all emissions sources that are required to be controlled on tankers

 To prevent monopolization of services, a minimum of two vendors needs to be approved.

Physical or Operational Constraints
Project:
Vendor-Provided and CARB-Approved B

Vendor-Provided and CARB-Approved Barge-Based Capture and Control (C&C) System

<u>Constraints:</u>

As of the date of this plan, a Vendor-Provided and CARB-Approved barge-based capture and control system does not exist. Barge-based capture and control systems are still under development for tanker vessels. Until the systems are developed and demonstrated, a complete list of constraints

cannot be fully assessed and finalized. The following list is based on current knowledge of the systems being proposed and may be amended once a system has been demonstrated and approved.

- Physical Constraints
 - Impedance or blockage of traffic in the channel
- Operational Constraints
 - Lack of safe and/or readily available CARB-approved bargebased capture and control systems
 - Lack of tug availability to move CARB-approved barge-based capture and control systems around the port(s)/terminal(s)
 - Lack of adequate safeguards of the CARB-approved barge-based capture and control system
 - Incompatibility between the design of the CARB-approved capture and control barge and the terminal/vessel. This includes, but is not limited to:
 - Undersized C&C treatment system, leading to an inability to treat all the vessel's emissions required by the Regulation.
 - Connection/collection design incompatible with the vessel's stacks
 - Undersized spuds preventing the barge from being able to spud alongside the vessel
 - Inability to safely operate the C&C barge due to lack of visibility or access to the vessel
 - Insufficient barge operability or employee qualifications – barge hinderance of vessels ability to

	meet California State Lands 30-
	minute departure requirements
	TLO participated in a technology assessment led by the DNV to evaluate emissions control strategies that could be used to meet the requirements of the Regulation. The physical and operational constraints listed above are included as additional constraints to what was identified by the DNV study. A copy of the DNV study is provided as an attachment to this plan.
2.2 Strategy 2: CARB-Approved Innovative Conc	ept
Identification and description of all necessary equ	lipment:
Equipment:	Location:
1. Innovative concept – see "Innovative	 Innovative concept – see "Innovative
Concept Application" submittal	Concept Application" submittal
Number of <u>vessels</u> expected to use this strategy (annual): TBD
Number of vessel visits expected to use this strat	egy (annual): TBD
Berths where equipment will be used:	
 See "Innovative Concept Application" sub 	mittal
Schedule for installing equipment:	
Project:	Estimated Completion Date:
1. See "Innovative Concept Application"	1. See "Innovative Concept Application"
submittal	submittal
Physical or Operational Constraints	
Project:	Constraints:
CARB-Approved Innovative Concept	 Physical Constraints
	 See "Innovative Concept
	Application" submittal
	 Operational Constraints
	 See "Innovative Concept
0.00	Application" submittal
2.3 Strategy 3: Terminal Shore Power System	
Identification and description of all necessary equip	oment:
Equipment:	Location:
1. Terminal Shore Power System	1. Long Beach Terminal, Berths B84a, B86
a. Upgraded utility provider	
infrastructure (transmission lines,	
substation transformers, switchgear)	
b. Transformers	
c. Power Distribution Center with	
electrical switchgear and motor	
controls	
d. Electrical Raceways and Wiring	
e. Cable Management Systems	
f. Fixed Cranes	

Number of vessel visits expected to use th	ategy (annual): TBD - dependent on vessel adoption is strategy (annual): TBD - dependent on vessel adoption
Berths where equipment will be used:	
1. Berth 84a	
2. Berth 86	
Schedule for installing equipment:	
<u>Project:</u> Terminal Shore Power System	Estimated Completion Date:
reminal shore Power System	• 3/1/2029*
	 Shore Power schedule assumes
	electric utility provider can mee
1	the proposed construction
	schedule and the grid is sufficier
	to handle the increased power demand.
	 Estimated completion date does
×	not reflect timeline for vessels to convert to shore power.
	*Items below may impact the Estimated
	Completion Date
	 Delays in permitting or environmental clearances
	 Ability for electric utility provider to
	assess and supply the increased power demand
	 Equipment development resulting from
	industry guidance and standardization
	for tanker vessel shore power systems
	 Lead time and availability to procure
	shore power equipment developed from
hysical or Operational Constraints	industry guidance and standardization
oject:	C
rminal Shore Power System	<u>Constraints:</u>
since of ower system	Physical Constraints
	 A Method of Service study has been requested from the service
	been requested from the electric utility provider, Edison. Results
	from this study will validate
	whether physical constraints exist
	due to available space at the
	Terminal and new equipment
	required to be installed.
	 Inability to obtain California
	Environmental Quality Act (CEQA)
	clearance could impact the
	installation of a shore power
	system. TLO has submitted their

Harbor Development Permit to the Port of Long Beach and is awaiting final review.

- Operational Constraints
 - A Method of Service study has been requested from the electric utility provider, Edison. Results from this study will validate the timeline for Edison to provide the necessary power required of vessels. Edison's ability to provide the necessary power may impact the estimated completion date.
 - TLO's ability to implement a shore power system will be reliant on industry development and standardization of a shore power system for tanker vessels.
 - Manufactures do not currently offer shore power systems for terminals and tanker vessels.
 Engineering and development are required before procurement and implementation of a system can take place.

TLO participated in a technology assessment led by the DNV to evaluate emissions control strategies that could be used to meet the requirements of the Regulation. The physical and operational constraints listed above are included as additional constraints to what was identified by the DNV study. A copy of the DNV study is provided as an attachment to this plan.

2.4 Feasibility Studies

Section 93130.14(a)(3)(H) states 'A terminal operator claiming that a physical and/or operational constraint will delay its ability to implement its preferred CARB approved control strategy to achieve emission reductions from vessels at berth according to the requirements of section 93130 et seq., must also include with its terminal plan a technical feasibility study evaluating if there are any other emission control options that could be implemented more quickly at the terminal'.

As of the date of this plan, the only CARB approved control strategy is shore power. TLO has elected to invest in the implementation of a shore power system at its Terminal. Within this Terminal Plan, TLO has identified the operational and physical constraints which will delay the implementation of a shore power system according to the requirements of section 93130 et seq.

Due to the physical and operational constraints identified and to support CARB's request to evaluate if any other emission control options could be implemented more quickly at the Terminal, TLO conducted a feasibility study to assess implementation of additional technology. To TLO's best knowledge, the only other technology which may be capable of meeting the requirements of section 93130 and not already being implemented by TLO is a land-based capture and control system. Based on the results of TLO's feasibility study to implement a land-based capture and control system, the estimated completion date aligned with the estimated completion date for a shore power system. In addition to dates, a physical constraint exists with the infrastructure due to the separate infrastructure required for a shore power system. Operational constraints, reflecting those identified for a barge-based system, also exist due to the needs to design a connection/collection system capable of safely capturing emissions from a variable set of stack configurations.

In summary, TLO believes all efforts have been exhausted to identify technologies capable of meeting the requirements of section 93130 which are not already being pursued through barge-based capture and control, a terminal shore power system, and innovative concepts. Industry studies, most notably the DNV Technology Assessment (attached), also did not identify alternative technologies which may be able to support the requirements of section 93130.

3. TERMINAL OPERATOR/PORT BERTHING RESTRICTIONS

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

- 1. Future dock enhancements necessary to accommodate shore power systems could necessitate berthing restrictions.
- 2. Underwater utilities located near the vessel berthing locations could restrict mooring systems for barge-based capture and control.

4. DIVISION OF ROLES AND RESPONSIBILITIES

Division of responsibilities:

Note: this plan does not amend or modify the terms and/or the conditions of Tesoro Refining & Marketing Company LLC's preferential assignment agreement and other agreements with the Port, including without limitation expiration dates, nor does it amend or modify the terms and/or conditions of any agreements of the Port of Long Beach and/or of Tesoro Refining & Marketing Company LLC with other entities nor does it modify or diminish any other obligations of other entities to the Port of Long Beach and/or LLC.

	Port	Terminal
Initiation of electrical infrastructure construction including design		\checkmark
Responsibility to provide equipment or necessary electrical infrastructure inside of the terminal		\checkmark
Responsibility to maintain electrical infrastructure inside of the terminal		\checkmark

Responsibility of uncontrolled emissions at berth due to incomplete electrical infrastructure construction		√
Responsibility of uncontrolled emissions during repair of electrical infrastructure/equipment		~
Submission of terminal plan		√
Submission of port plan	\checkmark	
Are there any contractual limitations and in the second second		

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

No limitations have been identified at this time.

Port approval of responsibilities:

Set forth in Section 4 of this At Berth Terminal Plan, the Port's responsible official confirms by signing below that he/she has reviewed the division of responsibilities and agrees to them under penalty of perjury. The Port does not make any representations about the accuracy, feasibility, or legality of Tesoro Refining & Marketing Company LLC proposed compliance strategy set forth in this At Berth Terminal Plan.

Name:	MARIO		RDERC	> Title:		(E	6	
Port:	hon6	BEI	Acrt					
Signature:	\sim	\c.	Ins	Date:	۱	29	24	
						6		

5. SIGNATURE OF TERMINAL OPERATOR

By signing below, Tesoro Logistics Operations LLC's responsible official confirms under penalty of perjury thathe/she has reviewed this At Berth Terminal Plan and is submitting this At Berth Terminal Plan as Tesoro Logistics Operations LLC's compliance strategy for the At Berth Regulation. Tesoro Logistics Operations understands this plan is subject to verification by CARB staff.

Name: Timothy Hayes	. Title: Region Manager	
Signature: /- A.	// Date: 1-15-21/	
monight	large	



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Port of Long Beach At Berth Port Plan

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Attachment K:

Terminal Plan for Tesoro Logistics – Terminal 1

Tesoro Logistics Operations LLC (TLO)* Terminal 1, Long Beach At Berth Terminal Plan

This terminal plan has been prepared pursuant to 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.

*Tesoro Logistics Operations LLC is the terminal operator for Carson Cogeneration LLC, the leaseholder with the Port of Long Beach.

1. GEN	ERAL INFORMATION	i an New States a state state state and		
Termin	al Contact Name: Timothy Hayes			
Phone	Number: 562-499-2249	Email: twhayes@marathonpetroleum.com		
Berths	Included in this Plan:			
Name:		Approximate Geographic Boundary Coordinates:		
1.	Berth T121	1. 33.75713, -118.21901		
		itioning of berths are dependent on vessel size; thus, the		
and the second se	hic boundary coordinates are approximates only			
	TEGY DETAILS			
Strategi	ies used to comply with the requirements fo	r ocean-going vessels visiting each berth:		
Broyida	d tashnalogy is sufficiently developed to or	erate with an acceptable level of personal and		
1	safety risk, TLO plans to employ the follow			
process	salety lisk, ite plans to employ the follow	ing strategies.		
1.	Terminal Shore Power System* - land-base	d system to supply electricity from the grid to a		
1	vessel			
2.	 Vendor-Provided and CARB-Approved Barge-Based Capture and Control (C&C) System as a 			
	CARB-Approved Emission Control Strategy (CAECS)			
1		LO's Innovative Concept Application for Long		
	Beach			
TLO may rely on a combination of these strategies to help reduce emissions from vessels at TLO's				
berths.				
		ut this system is only compatible with one (1)		
		compatibility for future vessels which may be		
	ower enabled.			
	tegy 1: Terminal Shore Power System			
-	ation and description of all necessary equip	1		
Equipme		Location:		
	Terminal Shore Power System (current	1. Terminal 1, Berth T121		
5	system)			
	a. Vessel connection is port side			
	only, connecting at the rear of			
	the vessel			

b. 60 Hz, 6.6kV, 900A, 10,288kVA				
2. Terminal Shore Power System (upgraded				
system)				
a. Electrical Raceways and Wiring				
b. Cable Management System				
c. Fixed Crane				
Number of vessels expected to use this strategy (annual): 1 initially, increasing as vessels adopt shore			
power technology	and any a meanly, mercasing as vessels adopt shore			
	egy (annual): 14 initially, increasing as vessels adopt			
shore power technology	by (annual). If initially, increasing as vessels adopt			
Berths where equipment will be used:				
1. Berth T121				
Schedule for installing equipment:				
Project:	Estimated Completion Data			
1. Terminal Shore Power System (current	Estimated Completion Date:			
system)	 NA – system already in service A (1/0000*) 			
2. Terminal Shore Power System (upgraded	2. 3/1/2029*			
system)	a. Estimated completion date does			
system)	not reflect timeline for vessels to			
	convert to shore power.			
	*Itoms holes mentioned the Suite of the			
	*Items below may impact the Estimated			
	Completion Date to upgrade the system			
	 Delays in permitting or environmental 			
	clearances			
	 Equipment development resulting from 			
	industry guidance and standardization			
	for tanker vessel shore power systems			
	 Lead time and availability to procure 			
	shore power equipment developed from			
	industry guidance and standardization			
Physical or Operational Constraints				
Project:	Constraints:			
1. Terminal Shore Power System (current	 Physical Constraints 			
system)	o None			
2. Terminal Shore Power System (upgraded	Operational Constraints			
system)	• The current shore power system			
	does not have a shoreside crane			
	to facilitate transportation of			
	power and control cables from			
	shore to vessel. Not all vessels			
	have a shipboard crane which			
	can support the cable			
	transportation process. This may			
	lead to an inability for some			
	vessels to utilize the current			
	system.			

	 TLO's ability to upgrade the current shore power system will be reliant on industry development and standardization of a shore power system for tanker vessels. Manufactures do not currently offer shore power systems for terminals and tanker vessels. Engineering and development are required before procurement and implementation of a system can take place.
	TLO participated in a technology assessment led by the DNV to evaluate emissions control strategies that could be used to meet the requirements of the Regulation. The physical and operational constraints listed above are included as additional constraints to what was identified by the DNV study. A copy of the DNV study is provided as an attachment to this plan.
2.2 Strategy 2: Vendor-Provided and CARB-Appro	oved Barge-Based Capture and Control
Identification and description of all necessary equiners Equipment: 1. Vendor-Provided and CARB-Approved Barge-Based Capture and Control System a. Fully contained barge system including collection system and treatment system	pment: Location: 1. Terminal 1, Berth T121
Number of <u>vessels</u> expected to use this strategy (a	nnual): 100
Number of vessel <u>visits</u> expected to use this strate Berths where equipment will be used:	gy (annual): 250
1. Berth T121	
Schedule for installing equipment: <u>Project:</u> Vendor-Provided and CARB-Approved Barge- Based Capture and Control (C&C) System	Estimated Completion Date: As of the date of this plan, a Vendor-Provided and CARB-Approved barge-based capture and control system does not exist. The estimated completion date is projected based on current knowledge and development status of the systems being proposed. • 9/1/2027* • C&C estimate assumes
	technology is proven safe, controls all emission sources required in the Regulation, and

the CARB Executive Officer has approved a minimum of two independent vendors by the end of 2024.

*Any unmitigated risks detailed below may result in a change to the Estimated Completion Date stated above.

- Full resolution of considerations identified in the Safety Study under the CARB grant for C&C Systems for Oil Tanker Project awarded to SCAQMD where TLO resources are actively supporting advancement as a demonstration partner.
- Full resolution of considerations from future safety studies and hazard assessments which TLO anticipates and view as necessary to ensure safe operations on tanker vessels
- Stack connection/collection design demonstrates:
 - Ability to capture emissions from a variable set of stack configurations without damaging the vessel's exhaust stacks.
 - Ability to capture emissions without introducing backpressure in the vessels exhaust systems.
 - Ability to capture emissions without creating sparks (electrical continuity)
 - Ability of the connection/collection design to accommodate vessel draft and pitch changes due to cargo operations
 - Ability of connection/collection system to adequately transport a wide range of flow rates from multiple stacks
 - Ability to capture emissions without placing an individual in harm's way
- Barge congestion and siting around vessels
 - C&C barges must not interfere with adjacent vessel traffic in the port

	 crossing navigational channels C&C barge must not hinder the vessel from being able to meet California State Lands 30-minute departure requirements Implementation of adequate emergency preparedness to ensure safety of bargebased system operators near hazardous cargo Treatment system performance meets or exceeds emission reduction requirements for all emissions sources that are required to be controlled on tankers To prevent monopolization of services, a minimum of two vendors needs to be approved.
Physical or Operational Constraints	
Project: Vendor-Provided and CARB-Approved Barge- Based Capture and Control (C&C) System	 <u>Constraints:</u> As of the date of this plan, a Vendor-Provided and CARB-Approved barge-based capture and control system does not exist. Barge-based capture and control systems are still under development for tanker vessels. Until the systems are developed and demonstrated, a complete list of constraints cannot be fully assessed and finalized. The following list is based on current knowledge of the systems being proposed and may be amended once a system has been demonstrated and approved. Physical Constraints Impedance or blockage of traffic in the channel Operational Constraints Lack of safe and/or readily available CARB-approved barge-based capture and control systems Lack of tug availability to move CARB-approved barge-based capture and control systems around the port(s)/terminal(s)

 C&C barges must not interfere with containment boom
 C&C barge mooring systems must not impact submerged utilities

0	Lack of adequate safeguards of
	the CARB-approved barge-based
	capture and control system

- Incompatibility between the design of the CARB-approved capture and control barge and the terminal/vessel. This includes, but is not limited to:
 - Undersized C&C treatment system, leading to an inability to treat all the vessel's emissions required by the Regulation.
 - Connection/collection design incompatible with the vessel's stacks
 - Undersized spuds preventing the barge from being able to spud alongside the vessel
 - Inability to safely operate the C&C barge due to lack of visibility or access to the vessel
- Insufficient barge operability or employee qualifications – barge hinderance of vessels ability to meet California State Lands 30minute departure requirements

TLO participated in a technology assessment led by the DNV to evaluate emissions control strategies that could be used to meet the requirements of the Regulation. The physical and operational constraints listed above are included as additional constraints to what was identified by the DNV study. A copy of the DNV study is provided as an attachment to this plan.

2.3 Strategy 3: CARB-Approved Innovative Concept			
Identification and description of all necessary equi	pment:		
Equipment: Location:			
 Innovative concept – see "Innovative 	1.	Innovative concept – see "Innovative	
Concept Application" submittal		Concept Application" submittal	
Number of vessels expected to use this strategy (annual): TBD			
Number of vessel visits expected to use this strategy (annual): TBD			

February 2024

Berths where equipment will be used:			
1. See "Innovative Concept Application" submittal			
Schedule for installing equipment:			
Project: 1. See "Innovative Concept Application" submittal	Estimated Completion Date: 1. See "Innovative Concept Application"		
Physical or Operational Constraints	submittal		
Project:	Constraints:		
CARB-Approved Innovative Concept	 Physical Constraints See "Innovative Concept Application" submittal 		
	 Operational Constraints See "Innovative Concept Application" submittal 		
2.4 Feasibility Studies			
Castley 02120 111 Making to			

Section 93130.14(a)(3)(H) states 'A terminal operator claiming that a physical and/or operational constraint will delay its ability to implement its preferred CARB approved control strategy to achieve emission reductions from vessels at berth according to the requirements of section 93130 et seq., must also include with its terminal plan a technical feasibility study evaluating if there are any other emission control options that could be implemented more quickly at the terminal'.

As of the date of this plan, the only CARB approved control strategy is shore power. While TLO currently has a shore power system, it is only compatible with one (1) vessel. To provide compatibility for future vessels which may be shore power enabled, TLO has elected to invest in upgrading the existing shore power system at its Terminal. Within this Terminal Plan, TLO has identified the operational and physical constraints which will delay the upgrades of a shore power system according to the requirements of section 93130 et seq.

Due to the physical and operational constraints identified and to support CARB's request to evaluate if any other emission control options could be implemented more quickly at the Terminal, TLO conducted a feasibility study to assess implementation of additional technology. To TLO's best knowledge, the only other technology which may be capable of meeting the requirements of section 93130 and not already being implemented by TLO is a land-based capture and control system. Based on the results of TLO's feasibility study to implement a land-based capture and control system, the estimated completion date aligned with the estimated completion date for an upgraded shore power system. In addition to dates, a physical constraint exists with the infrastructure due to the separate infrastructure required for a shore power system. Operational constraints, reflecting those identified for a barge-based system, also exist due to the needs to design a connection/collection system capable of safely capturing emissions from a variable set of stack configurations.

In summary, TLO believes all efforts have been exhausted to identify technologies capable of meeting the requirements of section 93130 which are not already being pursued through barge-based capture and control, a terminal shore power system, and innovative concepts. Industry studies, most notably the DNV Technology Assessment (attached), also did not identify alternative technologies which may be able to support the requirements of section 93130.

3. TERMINAL OPERATOR/PORT BERTHING RESTRICTIONS

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

- 1. Vessels are restricted to berthing port side only.
- 2. Underwater utilities located near the vessel berthing locations could restrict mooring systems for barge-based capture and control.

4. DIVISION OF ROLES AND RESPONSIBILITIES

Division of responsibilities:

Note: this plan does not amend or modify the terms and/or the conditions of Tesoro Refining & Marketing Company LLC's preferential assignment agreement and other agreements with the Port, including without limitation expiration dates, nor does it amend or modify the terms and/or conditions of any agreements of the Port of Long Beach and/or of Tesoro Refining & Marketing Company LLC with other entities nor does it modify or diminish any other obligations of other entities to the Port of Long Beach and/or Tesoro Refining & Marketing Company LLC.

T		
	Port	Terminal
Initiation of electrical infrastructure construction including design		~
Responsibility to provide equipment or necessary electrical infrastructure inside of the terminal		1
Responsibility to maintain electrical infrastructure inside of the terminal		1
Responsibility of uncontrolled emissions at berth due to incomplete electrical infrastructure construction		\checkmark
Responsibility of uncontrolled emissions during repair of electrical infrastructure/equipment		\checkmark
Submission of terminal plan		~
Submission of port plan	\checkmark	
Are there any contractual limitations applicable to the terminal relevant Infrastructure? If yes, describe. Io limitations have been identified at this time.	nt to enacting t	he
Port approval of responsibilities:		

Set forth in Section 4 of this At Berth Terminal Plan, the Port's responsible official confirms by signing

below that he/she has reviewed the division of responsibilities and agrees to them under penalty of perjury. The Port does not make any representations about the accuracy, feasibility, or legality of Tesoro Refining & Marketing Company LLC proposed compliance strategy set forth in this At Berth Terminal Plan.

Name:	MARIO GROZROTitle: CED	
Port:	Long Beach	
Signature:	Ma. (m = Date: 129 21	

5. SIGNATURE OF TERMINAL OPERATOR

By signing below, Carson Cogeneration LLC's responsible official confirms under penalty of perjury that he/she has reviewed this At Berth Terminal Plan and is submitting this At Berth Terminal Plan as Carson Cogeneration LLC's compliance strategy for the At Berth Regulation. Carson Cogeneration LLC J understands this plan is subject to verification by CARB staff.

Name: Timothy Hayes Title: Region Manager Signature: Date: 1-15-24



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Attachment L:

Terminal Plan for Petro-Diamond

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Port of Long Beach



Petro-Diamond Terminal Company (Petro-Diamond) 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.

Terminal Contact Name: Pat Kennedy						
Terminal Contact Name, Fat Kennedy						
Phone Number: 562-435-8364 Email: patk@petrodiamond.com						
Berths Included in this Plan:						
Name:	Approximate Geographic Boundary Coordinates:					
1. B82	1. 33° 46.465'N, 118° 13.069'W					
2. B83	2. 33° 46.425'N, 118° 13.146'W					
*The number of berths on a terminal and the snatial	positioning of berths are dependent on vessel size; thus, the					
geographic boundary coordinates are approximates						
2. STRATEGY DETAILS						
Strateg(ies) used to comply with the requirement	nts for ocean-going vessels visiting each berth:					
1. Not applicable - shared berth(s) and co						
2.1 [Strategy 1]						
Identification and description of all necessary ec	quipment:					
Equipment:	Location:					
1. Not applicable	1. Not applicable					
Number of vessels expected to use this strategy	/ (annual): All (< 20)					
Number of vessel visits expected to use this stra	ategy (annual): All (< 20) 2020 and 2021 YTD calls					
attached.	and a second second second					
Berths where equipment will be used:						
1. Not applicable	1					
CSEL PRIVIL	· · · · · / · · ·					
Schedule for installing equipment:						
Project:	Estimated Completion Date:					
1. Not applicable	1. Not applicable					

3. TERMINAL OPERATOR/PORT BERTHING RESTRICTIONS

Are there any terminal or port specific berthing restrictions? If yes, please describe. <u>Not applicable</u> [May include requirements to berth starboard- or port-side, channel constrictions, etc.]



4. DIVISION OF ROLES AND RESPONSIBILITIES

Division of responsibilities for enacting infrastructure: Port:

Not applicable

Terminal Operator:

Not applicable

Note: this plan does not amend or modify the terms and/or the conditions of Petro-Diamond's preferential assignment agreement and other agreements with the Port, including without limitation expiration dates, nor does it amend or modify the terms and/or conditions of any agreements of the Port of Long Beach and/or of Petro-Diamond with other entities nor does it modify or diminish any other obligations of other entities to the Port of Long Beach and/or Petro-Diamond.

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

Not applicable

Port approval of responsibilities:

The Port's responsible official confirms by signing below that he/she has reviewed the division of responsibilities set forth in Section 4 of this At Berth Terminal 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 Petro-Diamond Terminal Company's proposed compliance strategy set forth in this At Berth Terminal Plan.

Name:	MAR	10	CORDERO	Title:	Execus	tive	Director
Port:			1997 - J. Marine M. M. Marine M. Marine				
Signature	M	-	(mit	Date:	Nou	17,	2021
			\sim				

5. SIGNATURE OF TERMINAL OPERATOR

By signing below, Petro-Diamond Terminal Company's responsible official confirms under penalty of perjury that he/she has reviewed this At Berth Terminal Plan and is submitting this At Berth Terminal Plan as Petro-Diamond Terminal Company's compliance strategy for the At Berth Regulation. Petro-Diamond Terminal Company understands this plan is subject to verification by CARB staff.

Name: Eric Conard	Title: General Manager
Signature: Call 2	Date: 10 28/2021



Berth 82/83 Vessel Log 2020

	Date	Vessel Name	Vessel Type
1	1/15/2020	550-1	Barge
2	1/18/2020	DBL 185	Barge
3	1/23/2020	650-6	ATB
4	2/3/2020	Sadah Silver	Ship
5	2/14/2020	FFA	Barge
6	2/19/2020	650-2	ATB
7	2/24/2020	550-1	Barge
8	3/3/2020	Sadah Silver	Ship
9	3/13/2020	550-1	Barge
10	3/20/2020	Jal Sasvata	Ship
11	3/26/2020	550-1	Barge
12	5/27/2020	Pelican State	Ship
13	7/17/2020	Rudolph Schulte	Ship
14	8/17/2020	Torm Gerd	Ship
15	9/16/2020	Resolve II	Ship



PDTC Berth 82/83 Vessel Log 2021

	Date	Vessel Name	Vessel Type
1	1/20/2021	Overseas Boston	Ship
2	2/5/2021	Overseas Boston	Ship
3	3/5/2021	Nave Sextans	Ship
4	3/9/2021	DBL 185	ATB
5	4/7/2021	Pelican Pacific	Ship
6	5/17/2021	Marlin Aventurine	Ship
7	6/10/2021	Marlin Ammolite	Ship
8	6/23/2021	PTI Hudson	Ship
9	7/13/2021	Stavanger Poseidon	Ship
10	8/19/2021	Blue Butterfly	Ship
11	8/27/2021	NCC Hijaz	Ship



Attachment M:

Terminal Plan for Toyota Logistics Services

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TOYOTA MOTOR NORTH AMERICA, INC. – BERTH B82 AND B83 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: Jeff White			
Phone Number: (562) 901-1216	Email: jeff.white@toyota.com		
Berths Included in this Plan:			
Name:	Approximate Geographic Boundary Coordinates:*		
1. Berth B82 and B83	1. – 33°46′24.73″N, 118°13′11.97″W		
	- 33°46'24.02"N, 118°13'11.38"W		
<i>i</i>	- 33°46′30.43″N, 118°13′1.14″W		
	- 33°46′29.76″N, 118°13′0.54″W		
geographic boundary coordinates are approxim 2. STRATEGY DETAILS			
Strategy used to comply with the requireme	nts for ocean-going vessels visiting each berth:		
system will connect and capture em initial installation cost if using a rent some modifications to the ship or to based emissions control system bec configurations and vessel connectio that offer barge-based control syste at berth. There are possible scenario such as during strong wind condition			
Toyota is selecting to proceed with the Barge-Mounted Capture Control at this time and is planning to utilize a rental barge-mounted capture control system. Vendor selection is pending a [California Air Resources Board (CARB) Approved Emission Control Strategy (CAECS)] for Roll on/roll off (RoRo) vessels.			
Technical challenges presented for a include:	idapting Barge-Mounted Capture Control for RoRo vessels		
capture control systems for RoR	roval request for a CARB-approved barge-mounted o vessels. Existing systems are only approved for have a wider power range while at berth and require a		

taller mast with longer reach. Thus, the existing systems will need to be adapted and then CARB-approved for RoRo vessel use.

- Sufficient number of CARB-approved barge-mounted capture control systems for RoRo vessels may not be available by 2025.
- Permitting considerations for the barge-based system: A barge-based control system may require a permit to operate from the South Coast Air Quality Management District, with possible California Environmental Quality Act (CEQA) review. Therefore, delays with the permit issuance may delay the estimated equipment installation completion date.

Supplemental Strategy -Shore Power

Toyota also studied Shore Power as an option for compliance at the Port of Long Beach. While Shore Power offers several benefits and may be the better long term solution, there are several technical challenges presented by Shore Power for RoRo vessels.

While the technical standard (IEC 80005-1 ED 2.2) for Shore Power Connections for RoRo vessels was issued in August 2023 significant modifications are required for both shore facilities and incoming ships. The ANSI/IEC standard was needed prior to the modifications taking place. In addition, the ship modifications must by accomplished while each ship is in dry dock. Both the timing of ANSI standard availability and the ship modification requirements create a long lead time to implement Shore Power. The anticipated schedule for Shore Power conversion exceeds the regulatory timeframe mandated by California Code of Regulations Title 17, Section 93130.7. Toyota is forecasting that Shore Power may be available at its berth by 2029 or later.

An additional consideration is grid power availability. California's increasing shift to solar power and away from natural-gas fired generators can result in reduced generation capacity during the evening and nighttime hours when there is no available sunlight for the solar power systems. During extreme heat events, high electricity demands for air conditioning systems increases the likelihood of a shortfall in electricity. Furthermore, California Governor Gavin Newsom issued Executive Order N-79-20 in September 2020 that requires all new cars and passenger trucks sold in California to be zero-emission vehicles by 2035. Most of these will be electric which will increase the electricity demand. Therefore, there is growing concern for California's grid capacity/resiliency to support shore power in addition to the increasing electricity demand from electric vehicles and the high electricity demand during extreme heat events.. To help mitigate this concern, Toyota is investigating fuel cell & alternative supplemental energy sources to facilitate Shore Power operations at the TLS Long Beach facility.

As compliance is a shared responsibility between the Port and the Terminal, both the Port and Toyota will continue to review and investigate compliance options as more details become available across the RoRo shipping industry and in terms of grid availability. Toyota plans to proceed with Capture Control as the Primary Compliance Strategy, supplementing with Shore Power as it becomes available in the future.

2.1 [Primary Strategy – Barge Mounted En	nissionC	ontroll
Identification and description of all necessar		
Equipment:	Locati	
1. Flexible Emissions Capture Device		Barge
2. Emissions Control System		Barge
3. Potential vessel stack modification		Vessel
Number of <u>vessels</u> expected to use this strat		
Number of vessel visits expected to use this	strategy	/ (annual): 82
Berths where equipment will be used: Berth B82 and B83		
Schedule for installing equipment:		
Project:		ted Completion Date:
 Selection of Capture Control Vendor – CARB Approved. 	1.	Early 2024
2. Vessel stack modification	2.	Mid-2024
2.2 [Supplemental Strategy-Shore Power]		
Identification and description of all necessary		ont.
Equipment:	Locatio	
1. Confirm Shore Power Supply		 Terminal
Strategy	2.	Terminal
2. Terminal Modifications (includes		
permitting)	3.	Vessel
3. Ship Modifications		v
Number of <u>vessels</u> expected to use this strate		
Number of vessel visits expected to use this s	trategy(annual): 82
Berths where equipment will be used: Berth B82 and B83		
Schedule for installing equipment:		
Project:		ted Completion Date:
 Selection of Shore Power Supply Strategy 	1.	Mid-2024
Terminal Modifications (includes permitting)	2.	End-2029
3. Ship Modifications	3.	Ongoing thru 2030's

Toyota Long Beach Vehicle Distribution Center – Berth 82 and 83 At Berth Terminal Plan

3. TERMINAL OPERATOR/PORT BERTHING RESTRICTIONS

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

Barge Mounted Capture Control: The barge would constrict a portion of the channel that may affect passing ship navigation.

Toyota is not aware of any other official port berthing restrictions.

4. DIVISION OF ROLES AND RESPONSIBILITIES

This section list the division of roles and responsibilities between the Port and the Terminal. Compliance is a shared responsibility between the Port and the Terminal.

Division of responsibilities:

Note: this plan does not amend or modify the terms and/or the conditions of Toyota's preferential assignment agreement and other agreements with the Port, including without limitation expiration dates, nor does it amend or modify the terms and/or conditions of any agreements of the Port of Long Beach and/or of Toyota with other entities nor does it modify or diminish any other obligations of other entities to the Port of Long Beach and/or Toyota.

	Port	Terminal
Initiation of electrical infrastructure construction including design		~
Responsibility to provide equipment or necessary electrical infrastructure inside of the terminal		\checkmark
Responsibility to maintain electrical infrastructure inside of the terminal		\checkmark
Responsibility of uncontrolled emissions at berth due to incomplete electrical infrastructure construction		\checkmark
Responsibility of uncontrolled emissions during repair of electrical infrastructure/equipment		\checkmark
Submission of terminal plan		\checkmark
Submission of port plan	\checkmark	

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

Berths B82 and B83 are shared Berths. Toyota Motor North America, Inc. is only the Terminal operator while Toyota-leased ships are at berth. National Gypsum has preferential berthing rights and may impact scheduling.

Port approval of responsibilities: The Port's responsible official confirms by signing below that he/she has reviewed the division of

responsibilities set forth in Section 4 of this At Berth Terminal 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 the Terminal Operator's proposed compliance strategy set forth in this At Berth Terminal Plan.

Name:		o Coro	ER OTitle:	CE	-0		
Port: Port of	Long Beach						
Signature:	M	(m5	Date:	1)	29	24	
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5. SIGNATURE OF TERMINAL OPERATOR			
By signing below, the Terminal Operator's responsible officer confirms under penalty of perjury that he/she has reviewed this At Berth Terminal Plan and is submitting this At Berth Terminal Plan as [Terminal Operator's] compliance strategy for the At Berth Regulation. [Terminal Operator] understands this plan is subject to verification by CARB staff.			
Name: Manny Bansi Title: VP TLS			
Signature: <u>Manny Bansi</u> Manny Bansi (Jan 19, 2024 12:17 CST)	Date: 01/19/2024		