

Richmond Terminal (Kinder Morgan) At-Berth Terminal Plan

1. GENERAL INFORMATION	
Terminal Contact Name: Dakota Jude	
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<i>Berths Included in this Plan:</i>	
<u>Name:</u> 1. Richmond 11	<u>Approximate Geographic Boundary Coordinates:*</u> 1. [37° 55'2.69"N 122° 22'9.61"W]
<i>*The number of berths on a terminal and the spatial positioning of berths are dependent on vessel size; thus, the geographic boundary coordinates are approximates only.</i>	
2. STRATEGY DETAILS	
<i>Strategy/strategies used to comply with the requirements for ocean-going vessels visiting each berth:</i>	
1. Emissions Capture and Control - Barge Based	
2.1 Strategy 1 - Emissions Control Barge (3 rd Party Service Provider)	
<i>Identification and description of all necessary equipment:</i>	
<u>Equipment:</u>	<u>Location:</u>
1. Preconditioning Chamber.	1. Barge
2. Cloud Generation Chambers.	2. Barge
3. System ID Fan.	3. Barge
4. Selective Catalytic Reduction (SCR).	4. Barge
5. Heater (Burner).	5. Barge
6. Heat Exchanger.	6. Barge
7. Exhaust Intake Bonnet (EIB).	7. Barge
8. Articulating Arm.	8. Barge
9. Placement Tower.	9. Barge
Number of vessels expected to use this strategy (annual): 40	
<i>Berths where equipment will be used:</i> Richmond 11	
<i>Schedule for installing equipment:</i>	
<u>Project:</u> 1. Emission Control Barge	<u>Estimated Completion Date:</u> 1. Kinder Morgan will contract with a 3 rd party service upon CARB certification of a barge based CAECS for liquid bulk vessels.

3. TERMINAL/PORT BERTHING RESTRICTIONS
<i>Are there any terminal or port specific berthing restrictions? If yes, please describe.</i> N/A

4. DIVISION OF ROLES AND RESPONSIBILITIES

Division of responsibilities for enacting infrastructure:
Port:
Permit the operation of Emission Control Barge in Port of Richmond waterways.

Terminal:
Contract with 3rd party service provider.

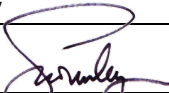
Are there any contractual limitations applicable to the terminal relevant to enacting the infrastructure? If yes, describe.
N/A

Port approval of responsibilities: N/A – no engagement with the port.
By signing below, the port’s responsible officer confirms that he/she has reviewed the division of responsibilities and agrees to them under penalty of perjury.

Name:	Title:
Port:	
Signature:	Date:

5. SIGNATURES

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

Name: Scott Manley	Title: Director of Operations
Signature: 	Date: 11/23/2021