

# At Berth Regulation Implementation Updates Webinar

May 17, 2022

## Agenda

- Overview & Introductions
- Part 1: Innovative Concepts (IC)
  - Summary of IC applications received
  - Kick off public review process
- Part 2: At Berth Implementation Overview
  - Port and Terminal Plans
  - Interim Evaluation
- Part 3: Open Q&A



## New At Berth Regulation

- Adopted by CARB's Board on August 27, 2020
- Every vessel visiting a regulated terminal must connect to shore power or alternative control strategy
- Compliance required by:
  - January 1, 2023: Container, Reefer, Cruise
  - January 1, 2025: Auto carrier
  - January 1, 2025 (SoCal) and January 1, 2027 (NorCal): Tanker
- Alternative compliance pathways:
  - Vessel and Terminal Incident Events (VIEs and TIEs)
  - Remediation Fund (for specific qualifying circumstances)
  - Innovative Concepts







## Regulation Implementation

- January 1, 2021 New Regulation took effect
- December 1, 2021 Ports and Terminal Plans submitted to CARB
- December 1, 2021 IC applications submitted
- December 1, 2022 Publish Interim Evaluation Report







At Berth Regulation

## **Innovative Concept Applications**



## What is an Innovative Concept?

Option that allows compliance through emission reduction projects that benefit impacted port communities



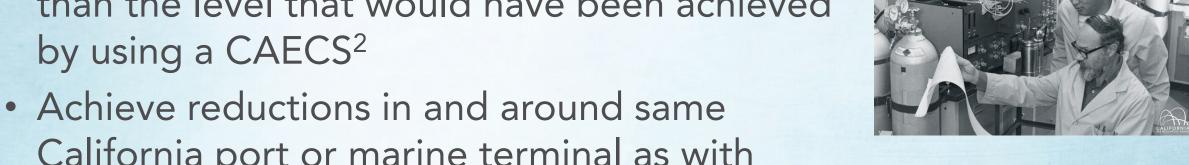


## Innovative Concept Key Requirements

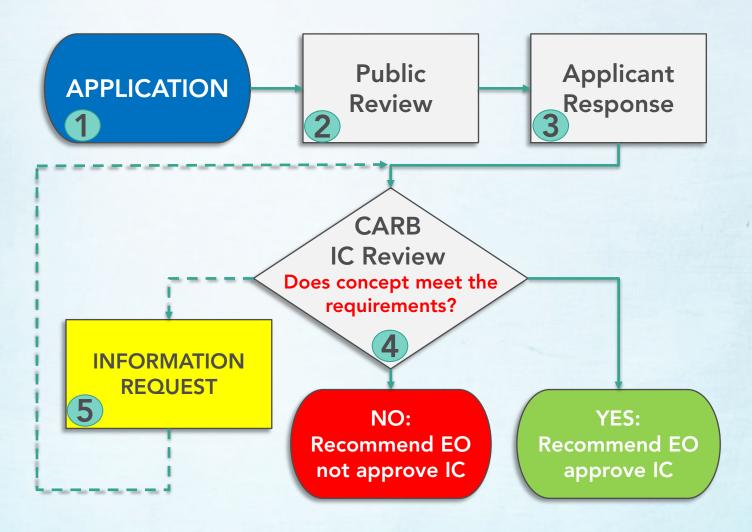
- Received by December 1, 2021
- Reduce emissions<sup>1</sup> equivalent to, or greater than the level that would have been achieved by using a CAECS<sup>2</sup>
- California port or marine terminal as with direct compliance
- Approved by CARB through Executive Officer
- Requirements are in Section 93130.17 of the Regulation



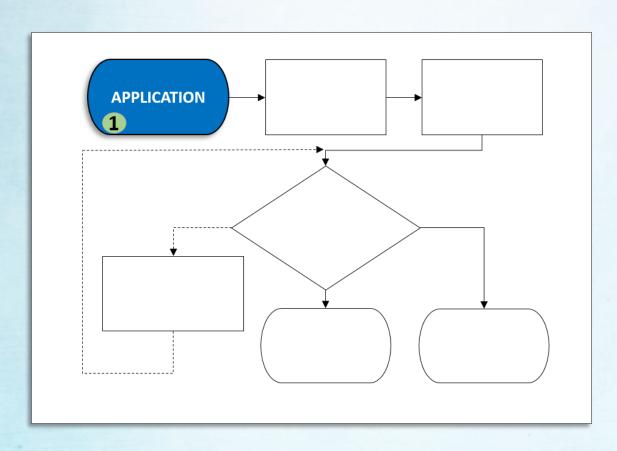
2) CAECS: CARB Approved Emission Control Strategies







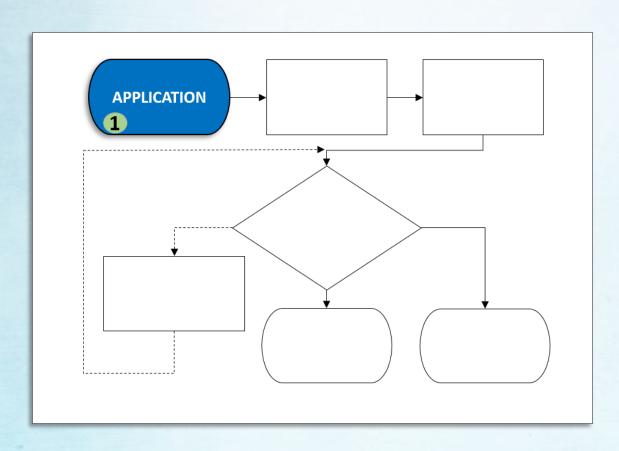




#### **Application Process**

Due Dec 1, 2021

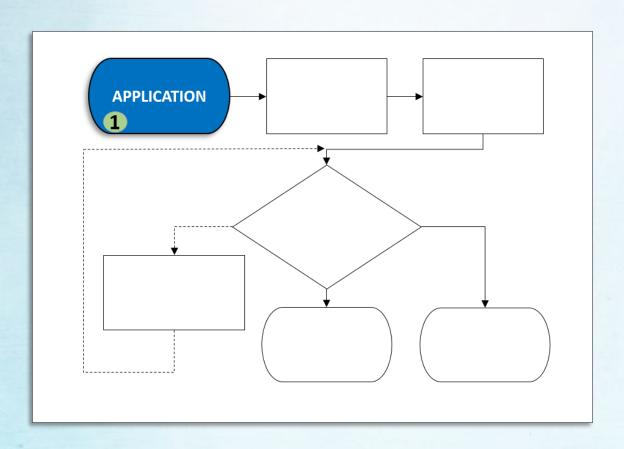




#### **Application Process**

- Due Dec 1, 2021
- 11 Applications received before deadline
  - 4 "Technology"
  - 7 "Non-technology"

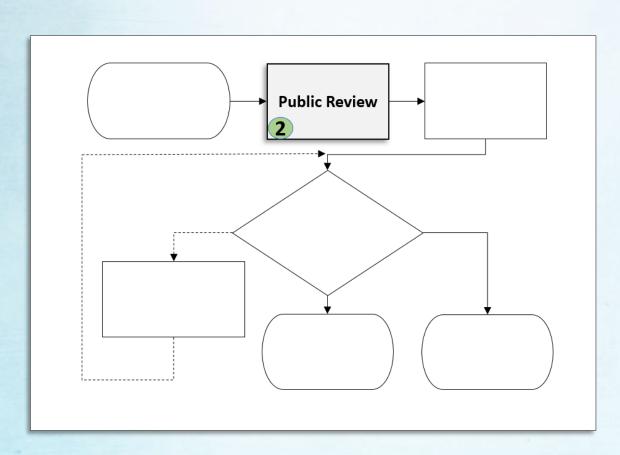




#### **Application Process**

- Due Dec 1, 2021
- 11 Applications received before deadline
  - 4 "Technology"
  - 7 "Non-technology"
- Applications did not provide all the required information





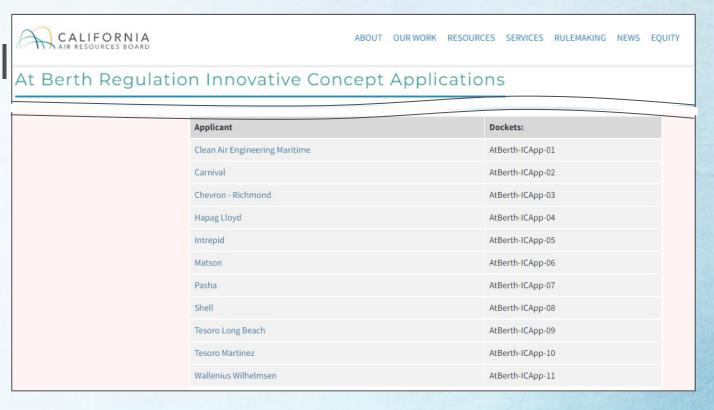
#### **Public Review**

- After this webinar, the applications will be posted for a 45-day public review
- CARB will notify applicants about missing information
- All comments will be posted



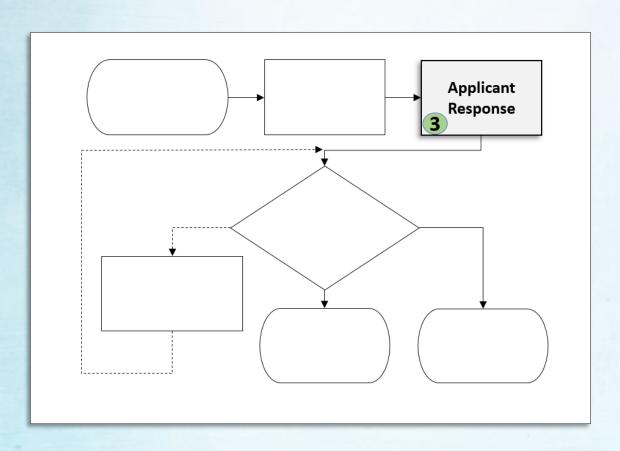
## Public Engagement

- A comment docket will be available for each IC
- Comments can be submitted here:



https://ww2.arb.ca.gov/berth-regulation-innovative-concept-applications

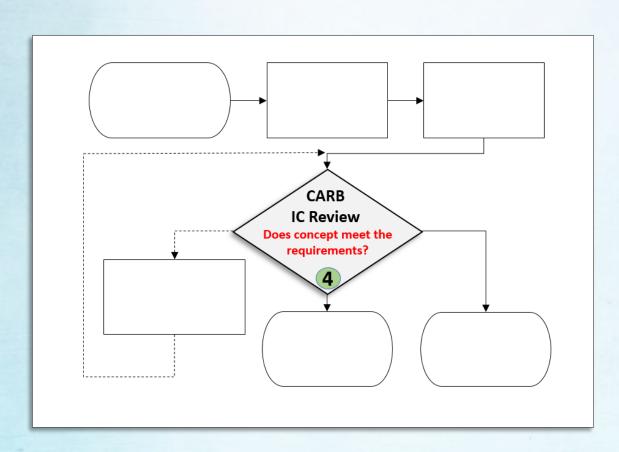




### **Applicant Response**

- Applicants will have 45 days to respond to public comments and provide missing information
- Applicants' responses will then be posted

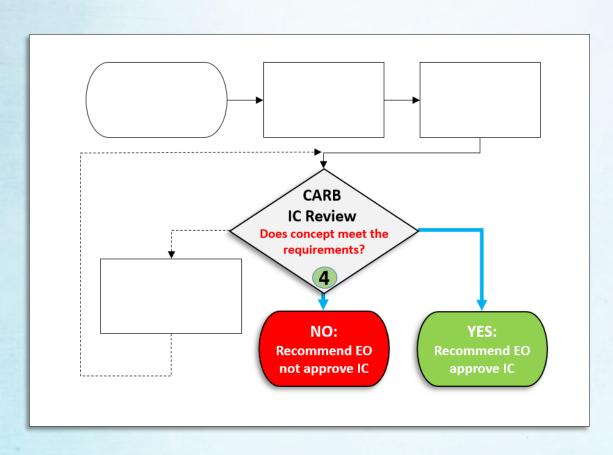




### Innovative Concept Review

 CARB then reviews the ICs to ensure concepts meet the regulatory requirements

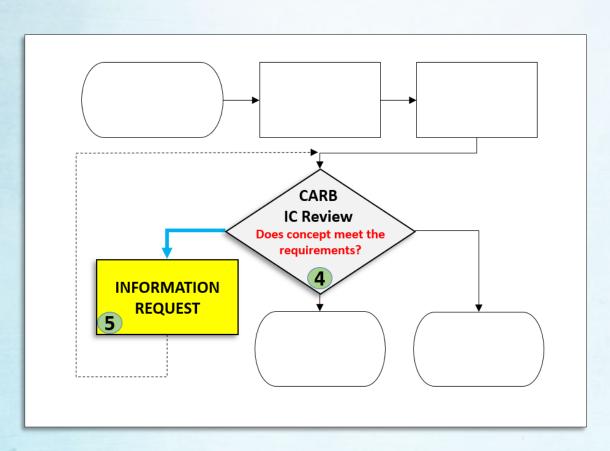




### Innovative Concept Review

- CARB then reviews the ICs to ensure concepts meet the regulatory requirements
- CARB staff will make recommendations to the Executive Officer (EO)
- EO will notify the applicants that their IC has been approved as a compliance option

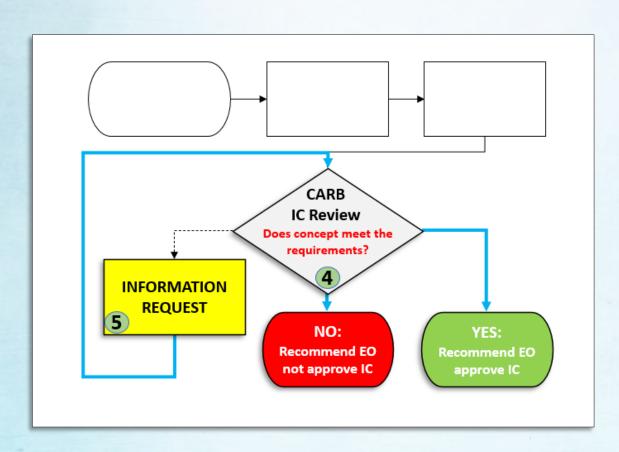




#### **Incomplete Applications**

Section 93130.17 (b)(5) of the regulation describes the process for incomplete applications:



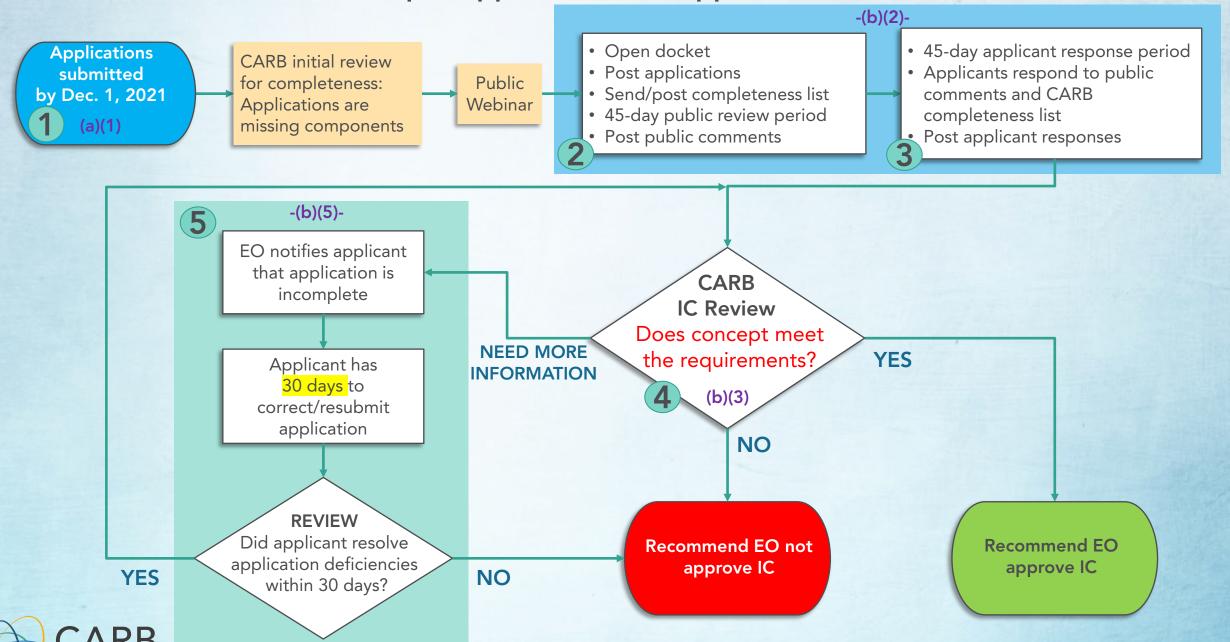


#### Incomplete Applications

Section 93130.17 (b)(5) of the regulation describes the process for incomplete applications:

- Applicants will be notified that their application is incomplete and will be given an opportunity to provide more information
- Applicants have 30 days to correct and resubmit application
- CARB will then re-evaluate the Innovative Concept





## **Next Steps**

- Applications will be posted
- Public has a 45-day window to evaluate and provide feedback
- Applicants will be notified regarding the information that is missing from their application
- Applicants will then have 45 days to respond to public comments
- CARB will evaluate the ICs or notify applicants if more information is needed



## Questions?





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## **Port and Terminal Plans**



## Purpose of Port/Terminal Plans

Goal is to demonstrate each port's/terminal's path toward compliance

Details responsibilities between ports, terminals and CAECS

Assist with Interim Evaluation



## What Was Required?

## Plans should include:

- Equipment and location
- Number of vessels expected to use the strategy
- Berth coordinates
- Where equipment will be used
- Terminal and Port berthing restrictions
- Schedule for installing and operating equipment
- Terminal-Port division of responsibilities



## Port and Terminal Plan Timeline

#### Submittal

• To CARB by December 1, 2021

#### After Submittal

• Staff had 90 days to review plans

#### Complete or Incomplete?

• If ports/terminals did not receive an incomplete letter from CARB within 90 days of submittal, plans were deemed complete

#### **Revised Plans**

- February 1, 2024: Revised ro-ro and S. CA tanker plans due
- February 1, 2026: All other tanker revised plans due



## Primary Compliance Strategy Container, Reefer, and Cruise Vessels

 Received: 9 Port Plans, 19 container/reefer terminal plans, and 4 cruise terminal plans

Container and Reefers:
Shore Power
Capture and Control
System

Cruise Vessels:

Shore Power

 Main Deficiencies: Missing coordinates, number of vessels to use strategy, lack of detailed installation schedules, and missing signatures



## Primary Compliance Strategy Ro-Ro Vessels

Received 8 ro-ro terminal plans

Shore power/barge/land-based capture and control combo

Shore power

Hydrogen fuel cells

 Main Deficiencies: Missing coordinates, general contact info, number of vessels to use strategy, lack of detailed installation schedules, and missing signatures



## Primary Compliance Strategy Tanker Vessels

Received 21 tanker terminal plans

Barge/land-based capture and control

**Shore Power** 

**Innovative Concepts** 

 Main Deficiencies: Majority of plans did not have a schedule for installing equipment, stating the schedule is dependent on CARB approved CAECS



### Where Can I Find the Plans?

- Plans are publicly available on CARB's website:
  - <a href="https://ww2.arb.ca.gov/our-work/programs/ocean-going-vessels-berth-regulation">https://ww2.arb.ca.gov/our-work/programs/ocean-going-vessels-berth-regulation</a>
- Updated ro-ro and tanker Terminal Plans will be due to CARB one year prior to their compliance year



## Questions?





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## Interim Evaluation



### Interim Evaluation



- Assess the progress in adopting control technologies and the status of infrastructure upgrades
- Evaluate possible inclusion of control requirements for bulk and general cargo vessels and vessels at anchor
- Must be published by December 1, 2022
  - Followed by an update to the Board (likely early/mid 2023)
- Data/analyses should be provided to CARB no later than June 2022
  - Can send information via email to shorepower@arb.ca.gov



## Interim Evaluation Topics

#### Status of Control Technologies

• Update the status of control technologies (assessing progress made in adopting control technologies for new vessel categories (ro-ro and tanker)

#### Feasibility of Requirements for Additional Vessel Categories

• Assessment of the feasibility of control requirements for bulk/general cargo vessels and for vessels at anchor

#### **Innovative Concepts**

Summary of Innovative Concepts applications received by CARB

#### **COVID** Impacts

• Evaluation of impacts resulting from the COVID pandemic

#### **Public Process**

• Discussion of community involvement and public process since the Regulation took effect (Jan. 1, 2021) in preparation for the drafting of the Interim Evaluation report



### **Data Needs**

- CARB is looking for data to assist with staff's evaluation of:
  - COVID impacts
  - Feasibility of control requirements for bulk and general cargo vessels <u>and</u> vessels at anchor
  - Labor delays
  - Infrastructure readiness for ro-ro and tanker vessels
  - Community impacts
- CARB encourages all public information submittals







### **Public Process**

- CARB will consider all information submitted by any member of the public or industry stakeholders
  - Including Port and Terminal Plans, site specific engineering evaluations, logistical considerations, health risk/exposure assessments
- CARB staff will provide further guidance on the public review process





## How Will CARB Use the Interim Evaluation Report



- Evaluate and summarize implementation status of the Regulation
- Develop recommendations for CARB's Board
  - Based on COVID impacts and new technical information or health studies
- Determine if control requirements are now feasible/recommended for:
  - Bulk and general cargo vessels
  - Vessels at anchor
- Findings will shape next steps recommendations to CARB's Board CARB

### **Contact Information**

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### **General Inquiries**

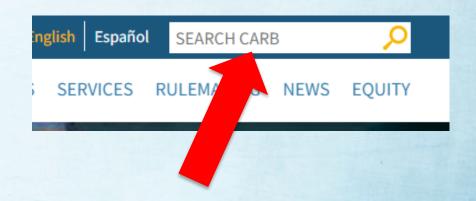
ShorePower@arb.ca.gov



### Where to Find More Details

More information can be found at: <a href="https://ww2.arb.ca.gov/our-work/programs/ocean-going-vessels-berth-regulation">https://ww2.arb.ca.gov/our-work/programs/ocean-going-vessels-berth-regulation</a>

Or go to: <a href="https://arb.ca.gov">https://arb.ca.gov</a> and type into the search window: "at berth" (The first option will open the page listed above)





## Questions?

