## WAREHOUSE ISR WORKING GROUP

8/23/19

### **OVERVIEW**

- Background
- Other Key State and Federal Activities
- Proposed Regulatory Concept
- > Schedule
- Expected Topics for Future Meetings:
  - > Technical Approach for Indirect Source Rule Menu
  - Role for Incentives
  - > SIP Credit

### BACKGROUND

- > Nine warehouse working group meetings since adoption of AQMP in 2017
- Recent discussion has focused on structure of rule - 'How would facilities comply?'
  - > Many options presented in previous meetings

- Most recent WG meeting discussed two potential approaches in more depth
  - > Facility cap and fleet crediting system
  - > Significant concerns raised about both approaches and neither approach is being pursued further at this time



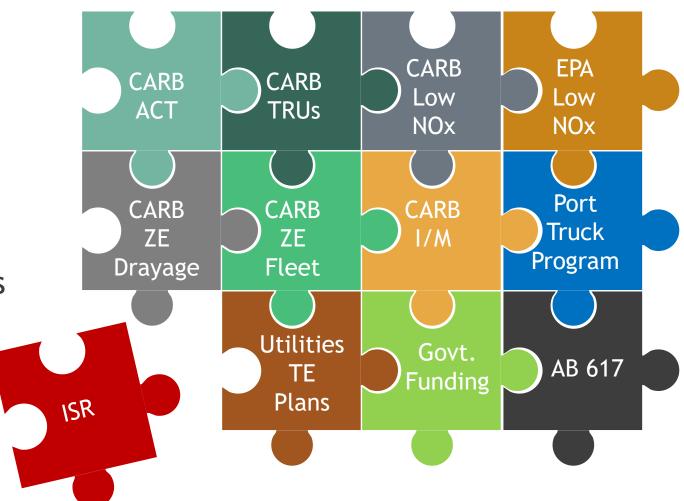
# OTHER SIGNIFICANT STATE AND FEDERAL ACTIVITIES AFFECTING TRUCKS SINCE ISR RULEMAKING BEGAN

| Agency   | Upcoming Action   | Expected<br>Decision | Expected<br>Phase-in<br>Period |
|----------|---|----------------------|--------------------------------|
| U.S. EPA | <u>Cleaner Truck Initiative</u> – In response to a petition from South Coast AQMD, EPA has committed to updating its truck engine standard to reduce NOx emissions.   | 2020-2021            | 2025-?                         |
| CARB     | <u>Transport Refrigeration Unit Regulation</u> – Measure to reduce residual risk from TRUs by transitioning to zero-emission technologies.  | 2019                 | 2025-2030                      |
|          | <u>Drayage Truck Rule</u> – Updated regulation to transition to zero-emission trucks.   | 2022                 | 2026-?                         |
|          | Advanced Clean Truck Rule – Requires truck manufacturers to sell an increasing percentage of zero-emission trucks by 2030 (up to 15% or 50%, depending on truck type). Also will require one-time fleet reporting for large businesses. | 2019                 | 2024-2030                      |
|          | Zero-Emission Fleet Rule – Would require some fleets to transition to zero-emissions.   | 2022                 | 2024-?                         |
|          | Heavy-Duty Low NOx Program – Would set new statewide engine standards, test cycles, and warranty and durability requirements to reduce NOx from trucks  | 2020                 | 2021-2027                      |
|          | <u>Heavy-Duty Inspection/Maintenance Program</u> – Would set new I/M requirements to ensure emissions controls are functioning properly   | 2020+                | 2020-?                         |
| Ports    | <u>Clean Truck Program</u> – Will establish a rate that trucks need to pay to enter the Ports beginning in 2020 if they are not near-zero emissions. Only zero-emission trucks will be exempt from the rate by 2035.                    | 2019                 | 2020-2035                      |

& CONTINUED PURSUIT OF INCENTIVE FUNDING + AB 617 + UTILITIES TE PLANS

# ROLE OF WAREHOUSE ISR RELATIVE TO OTHER STATE AND FEDERAL ACTIVITIES

- > Warehouse ISR aims to:
  - Facilitate and enhance local and regional emission reductions together with all other state and federal activities
  - Focus on actions and investments that facilities can make
  - Provide multiple options for compliance



# PROPOSED REGULATORY CONCEPT - MENU-BASED POINTS SYSTEM

WAREHOUSE ACTIONS & INVESTMENTS TO REDUCE EMISSIONS (WAIRE PROGRAM)

### Proposed Core of the WAIRE Program

- Central piece of warehouse ISR will be a menu of actions/investments for facility operators to implement
  - > Similar to LEED and other systems (e.g., SB County GHG Plan)
- Each menu item will have a specified number of 'points' (WAIRE Points) associated with it
- Facility operators will be required to complete a specified number of WAIRE Points each year

### DRAFT COMPONENTS OF PROPOSED RULE

- a) Purpose & Applicability
- b) Definitions
- c) Requirements
- d) Calculation Methods
  - Supplemental Guidelines
- e) Reporting, Notification, and Plans
- f) Recordkeeping
- g) Compliance Auditing and Enforcement
- h) Administrative Fee
- Attached Menu of Compliance Options

### DRAFT PURPOSE & APPLICABILITY

- Purpose is to facilitate local and regional emission reductions through actions and investments at warehouses
- > Applicability:
  - > All operators of warehouses greater than 100,000 square feet in building area
    - > Includes operators who lease a portion of a warehouse that is >100k sf
    - > A warehouse operator is the primary entity with operational control over the facility
    - > Rule would not directly apply to warehouse owners or fleet owners
      - > Warehouse and/or fleet owners required to comply only if they are a warehouse operator
      - > Warehouse and/or fleet owners may have voluntary role even if they are not the warehouse operator

## DRAFT REQUIREMENTS

- Every year, facility operators must demonstrate that they have earned XX WAIRE Points
- WAIRE Points are earned based on actions/investments specified in Menu (see slides below)
  - > WAIRE Points can be earned from any Menu item, or multiple Menu items
  - WAIRE Points only earned from actions/investments that have already occurred in the previous year
    - > Over-compliance in one year can be carried over into future years
- The number of WAIRE Points that each facility operator must earn will be based on the number of truck trips to that facility

### RELATIONSHIP BETWEEN TRUCK TRIPS AND BUILDING SIZE

- Two primary methods typically used to determine truck trips at a facility
  - 1. Default trip rates from studies
  - 2. Direct measurement and/or recordkeeping at the facility
- Default truck trip rates established by organizations like Institute for Transportation Engineers and local transportation agencies

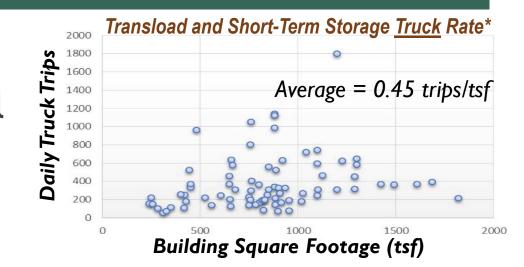


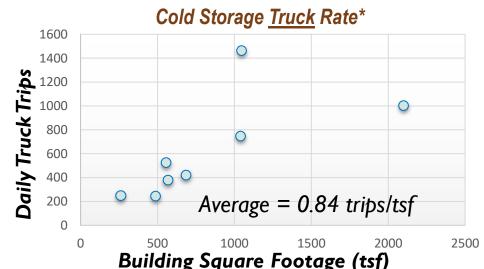
## RELATIONSHIP BETWEEN TRUCK TRIPS AND BUILDING SIZE - CONTINUED

Truck trip rates vary between different warehouse types and different individual warehouses

> Seeking input on how to include default and/or actual truck trip rates into rule

\*Source: ITE Warehouse Truck Trip Study, 2016





# DRAFT MENU ONE-TIME ACTIONS

 Points earned only for actions beyond CARB regulatory requirements

#### **One-Time Actions/Investments**

- Install onsite truck ZE charging/fueling stations and infrastructure
- Install near-site truck ZE charging/fueling stations and infrastructure
- > Establish new onsite or near-site areas for repairs/overnight rest
- Install plugs/infrastructure for Transportation Refrigeration Units (TRUs)
- > Purchase ZETRUs
- Purchase ZE yard trucks
- Purchase ZE or NZE on-road trucks
- Install onsite solar panels
- Install onsite energy storage (e.g., batteries)
- ➤ Install air-filtration for surrounding sensitive receptors

# DRAFT MENU ONGOING ACTIONS

Points earned only for actions beyond CARB regulatory requirements

### **Ongoing Actions/Investments**

- ➤ Use onsite truck ZE charging/fueling stations
- Use TRU plugs
- ➤ Use ZETRUs
- Use ZE yard trucks
- > ZE/NZE truck visits
- Produce electricity from solar panels
- Use onsite energy storage
- > Provide filters for air-filtration systems for surrounding sensitive receptors
- Establish employee commute reduction program for warehouses with <250 employees (not currently required to comply with Rule 2202)
- Educate drivers about local truck routes, off-site parking, and idling limits
- Pay mitigation fee directed to a) trucks or b) ZE charging/fueling stations

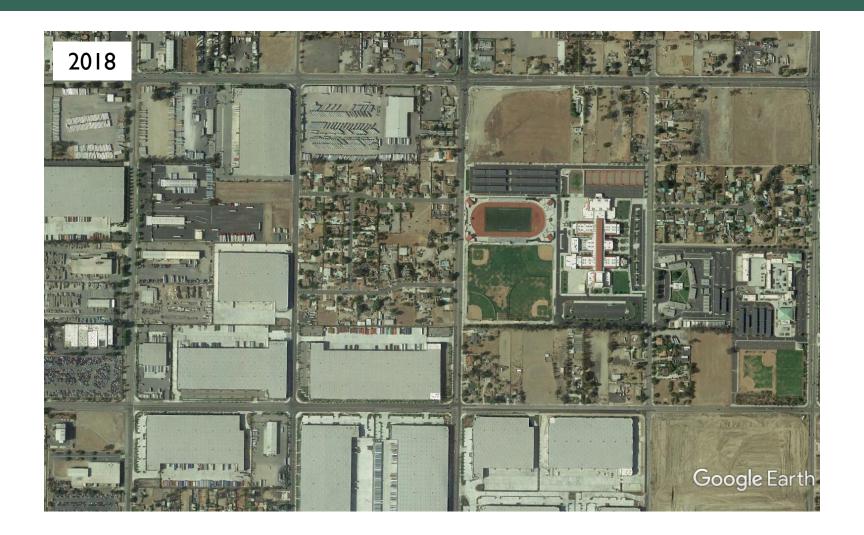
### DEVELOPING THE VALUE OF WAIRE POINTS

- > Points earned based on metrics established for each menu item
  - Example: XX ZE truck visits = YY WAIRE Points
- > Some menu items may be split into sub-items that can earn points
  - Example: Installing charging infrastructure → permitting, trenching, panel upgrades, etc.
- Key factors for determining point value
  - > Cost, local exposure benefit, emission reduction potential
  - Others?
- Future working groups will focus on technical approach for specific menu items

## KEY AIR QUALITY CHALLENGES - LOCAL **PROXIMITY MATTERS**



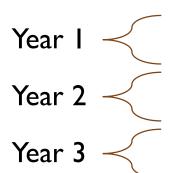
## KEY AIR QUALITY CHALLENGES - LOCAL PROXIMITY MATTERS



# How Would the Proposed Regulatory Concept Address Localized Air Quality Impacts?

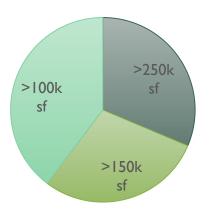
- > Nearly all menu items focus on actions at or near a facility
- Some menu items may be weighted heavier if a facility is near sensitive receptors
  - Example: A facility adjacent to a school with diesel yard trucks could potentially get more points for switching to ZE yard trucks than a facility with no nearby sensitive receptors
- Funds from any mitigation fees paid would be directed back to the area where the fee came from
- Potential for mandatory requirements?
  - > Truck driver education about truck routes, offsite parking, idling, incentives, etc.
  - > Others?

## DRAFT REQUIREMENTS - TIMING



- Operators of facilities  $\geq$ 250k sf must earn XX WAIRE Points
- Operators of facilities ≥150k sf must earn XX WAIRE Points
- Operators of facilities  $\geq$  100k sf must earn XX WAIRE Points





Total Population = 2,585

- > Stringency of rule will also increase through time
  - > Amount and timing of increase still to be determined

## REPORTING, NOTIFICATION, AND PLANS

- Reporting: Facility operators must submit an Initial Site Information Report on January 1, 2021
  - Site Information Report
    - Alt. fueling/charging infrastructure: Number of chargers/fueling stations installed (cars, on-road trucks, forklifts, yard trucks), fuel type, total fuel dispensed
    - > Truck trips: Number of truck trips in the previous year and anticipated in next year, by truck size
    - On-road trucks controlled by facility operator at that facility: How many, class, fuel type, total VMT by class and fuel type, typical dwell time at facility by class
    - > Solar + onsite energy storage: Size of system, annual production/usage
    - Yard trucks: How many, fuel type, and total annual operational hours

## REPORTING, NOTIFICATION, AND PLANS - CONTINUED

- Notification: Facility operators must notify South Coast AQMD within one month of taking over operations of a warehouse
  - > Notification must include Site Information Report
- > Plan: Six months before the first WAIRE Points are due from a facility, the facility operator shall indicate how they intend to earn WAIRE Points
  - Plan would not require South Coast AQMD approval
- > Reporting: On July 1 annually, facility operators must report how they earned the required number of WAIRE Points

## PROPOSED SCHEDULE (TENTATIVE)

| Date           | Key Activity  |
|----------------|---|
| 9/19/19        | Working Group   |
| 9/20/19        | Mobile Source Committee Update on all FBMSMs  |
| 10/29/19       | Working Group   |
| Early November | Evening Public Meetings in Inland Empire and LA County                                |
| Mid November   | Release Preliminary Draft Rule and CEQA Notice of Preparation                         |
| 12/10/19       | Working Group   |
| 1/17/20        | Mobile Source Committee Update  |
| Mid January    | Release CEQA Draft Environmental Assessment   |
| 1/30/20        | Working Group   |
| 2/14/20        | Release 75-day package (Draft Rule, Draft Staff Report, Draft Socioeconomic Analysis) |
| 3/17/20        | Public Workshop   |
| 3/20/20        | Mobile Source Committee   |
| 3/31/20        | Release 30-day package  |
| 5/1/20         | Public Hearing to consider adoption of Warehouse ISR                                  |

### NEXT STEPS

- > Continue to develop rule concept and draft rule language
- > Continue to receive input from stakeholders

#### > Contact:

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