

# Ports MOU Working Group Meeting #2



July 24, 2019



# Today's Agenda

---

1. Introductions
2. Update on Ports MOU Development
3. Ports Update on CAAP Implementation
4. Next Steps



# Background

South Coast AQMD Board approved MOU approach for the marine ports Facility Based Mobile Source Measure (FBMSM) in May 2019

- Based on emission reductions from implementation of 2017 CAAP Update measures



# 2017 CAAP Update - Key Measures

## Drayage Trucks

- Clean Trucks Program
- Transition to zero emissions by 2035

## Cargo Handling Equipment

- 10-year procurement plans
- Transition to zero emissions by 2030

## Ocean-Going Vessels

- Expand Vessel Speed Reduction program
- Develop incentive programs for Tier 3 vessels and retrofit technologies

## Harbor Crafts

- Repower to Tier 3 and Tier 4 through incentive measures

## Locomotives

- Expand on-dock rail infrastructure to move 35% of containerized cargo by rail



# Draft MOU Development Update

- On-going meetings/conference calls between AQMD and Ports staff (every 3 weeks)
- Continuing communications at the executive management level
- High level agreement on key MOU concepts
- Draft MOU language being developed but pending potential emission benefits projections for CAAP measures



# Draft MOU

## Purpose

- Quantify emission reduction benefits and SIP credits anticipated through implementation of the 2017 CAAP Update strategies

## Structure

- General agreements regarding purpose, process and approach in the main body of MOU
- Specific agreements on CAAP measures (e.g., milestones, targets, implementation and reporting requirements)



# Key Considerations

- MOU development and implementation through public process
- Voluntary agreement entered into by all three parties
- Prospective SIP creditable measures
- Metrics to track implementation and progress
- Maintain ability to obtain incentive funding



# Roles and Responsibilities

## Ports

- Implement and track 2017 CAAP Update measures with emission reduction benefits
- Provide all related studies and reports to South Coast AQMD (e.g., truck rate study, feasibility studies, annual emissions inventories)
- Participate as a member in Technical Working Group (TWG) and MOU Working Group
- Track and report on implementation of CAAP measures
- Seek grant funding and implement incentive programs

## South Coast AQMD

- Establish and lead Technical Working Group
- Establish and lead the MOU public process and MOU Working Group
- Provide technical analyses for potential SIP emission credits from CAAP measures
- Enforceable commitments for SIP credits; address potential shortfall through a collaborative process
- Monitor and assess implementation of CAAP measures and provide annual reporting to EPA
- Support Ports' efforts to seek grant funding to implement CAAP measures





# Ports MOU Technical Working Group (TWG)

---

- Membership
  - South Coast AQMD, Ports of LA & LB, US EPA, CARB, Coalition for Clean Air, Sierra Club, Pacific Merchant Shipping Association, California Trucking Association
- Process
  - Bi-weekly meetings since February 2019 to develop methodologies and determine:
    - Baseline (business as usual) emission forecasts (2023 & 2031)
    - Emission benefits for CAAP measures
    - SIP creditable emission reductions

# TWG Update

## Port Trucks Baseline Emissions Forecast

	VMT (mi/day)	NOx (tpd)	PM2.5 (tpd)
2017 <sup>1</sup>	1,249,616	8.71	0.05
2023 <sup>2,3</sup>	1,591,711	6.06	0.04
2031 <sup>2,3</sup>	2,120,133	7.84	0.05

1. Based on 2017 emissions inventories for POLA/POLB
2. EMFAC 2017 Custom Activity Module-based forecast
3. VMT growth projections based on San Pedro Bay Long-Term Unconstrained Cargo Forecast, 2016 Mercator



# TWG Update

## Cargo Handling Equipment Baseline Population Forecast

	2017 <sup>1</sup> Population	Activity (Hours)	2023 <sup>3</sup> Population	Activity <sup>2</sup> (Hours)
Yard Tractors	1,642	2,724,659	2,063	3,508,274
RTGs	187	348,982	210	449,350
Top Handlers <sup>4</sup>	452	961,401	565	1,237,902
Side Picks	34	27,161	44	34,973
Forklifts	738	441,865	753	468,504
Others	172	121,670	171	129,005
Total <sup>5</sup>	3,225	4,625,738	3,806	5,828,008

1. Based on 2017 emissions inventories for POLA/POLB (ICTF not included)
2. 2023 activity growth rates based on San Pedro Bay Long-Term Uncontrolled Cargo Forecast, 2016 Mercator
3. 2023 forecast based on modified CARB's methodology with updated purchasing curve
4. Straddle carriers are included under top handlers
5. Excluding all-electric cargo handling equipment



# Next Steps

---

- Track development of CAAP measures
- Ports MOU TWG
  - Complete baseline emissions forecasts
  - Estimate emission benefits from CAAP measures upon availability of sufficient information and data to make projections
- Develop draft MOU language
- Next MOU Working Group meeting in September/October 2019
  - Update on TWG activities and products
  - Updates from Ports on CAAP implementation
  - Draft MOU language

