

SAN PEDRO BAY PORTS

CLEAN AIR ACTION PLAN

Clean Air Action Plan Implementation Progress Report Third Quarter 2019

ACCOMPLISHMENTS

GENERAL

- The Ports held their seventh CAAP Implementation Advisory Working Group meeting on October 3, 2019 at the Port of Long Beach Administrative Offices in Long Beach, California. Future meetings will continue to occur on a quarterly basis.

TRUCKS

- **2018 Tariff Modification.** As of October 1, 2018, all new trucks entering the Port Drayage Truck Registry (PDTR) must meet 2014 model year or better. As of the end of the third quarter, more than 2,300 “2014 Model Year” or newer trucks have been added to the PDTR since the tariff change went into effect.
- **Clean Truck Fund Rate Study.** The final draft of the economic study for the truck rate (Study) is under review. The goals of the Study are to analyze potential for cargo diversion over a range of rates, examine the potential effect on the local drayage industry, and identify potential revenues that might be generated. The Study is expected to be completed in Fourth Quarter 2019.
- **Rate Collection Mechanism.** In anticipation of the Truck Rate, the Ports released a Request for Proposals (RFP) in First Quarter 2019 which included minimum requirements for how to collect a rate from Beneficial Cargo Owners. The Ports tentatively selected a contractor and are currently negotiating contracts for services. The Ports plan to bring separate contracts to their respective Boards of Harbor Commissioners (Boards) for consideration in Fourth Quarter 2019.
- **Early Deployment and Demonstrations.** The Ports continue to manage several grant-funded demonstrations of zero-emissions trucks, including over 20 hydrogen fuel-cell or battery electric trucks as part of supply-chain pilots. The Ports have also committed to supporting regional demonstrations. This includes a near-zero natural gas drayage trucks deployment project through a California Energy Commission (CEC) grant secured by South Coast Air Quality Management District (AQMD) that is expected to fund up to 140 low NO_x trucks. AQMD has begun contracting with trucking companies to deploy the low NO_x trucks; at least 5 are registered in the Ports’ PDTR and the rest are expected to be deployed before the end of 2019.

TERMINAL EQUIPMENT

- **Feasibility Assessment for Terminal Equipment.** The Ports’ released the Final Cargo Handling Equipment (CHE) Feasibility Assessment to the public on September 20, 2019 and can be found on the CAAP website.
- **Early Deployment and Demonstrations.** The Ports continue to manage several grant funded demonstration projects, including ultra-low NO_x and electric yard tractors, electric

top handlers, and electric rubber-tired gantry cranes, as well as innovative approaches to charging infrastructure and demonstrations of supporting electrical infrastructure, including micro-grid controls with distributed generation and battery storage. The POLB had its very first manually-driven battery-electric piece of equipment delivered as part of the C-PORT project and associated infrastructure commissioned. Four other pieces of CHE are expected to be deployed by end of 2019. At POLA, Pasha has placed 2 battery-electric yard tractors in service and has demonstrated the ShoreKat treatment system while vessels are at berth. Additionally, Everport received 2 battery electric Taylor top handlers (the first 2 in the world) and 5 battery-electric yard tractors. The Ports are currently working with technology vendors and their selected, third-party Nationally Recognized Testing Laboratories to conduct field evaluations and address all identified modifications needed to pass certification of the electric vehicle supply equipment (EVSE) with the Authority Having Jurisdiction. The Authority Having Jurisdiction includes the City of Long Beach (for demonstrations taking place at the Port of Long Beach) and the City of Los Angeles (for demonstration taking place at the Port of Los Angeles). These EVSEs will be used to power the electric top handlers and electric yard tractors.

SHIPS

- **Vessel Speed Reduction Enhancements.** The Ports are continuing outreach to the shipping lines to explore ways of enhancing participation at the 40 nm marker for vessel speed reduction. 96.5% of vessels visiting the Ports in Q2 2019 slowed down to 12 knots within 20 nautical miles of Point Fermin, and 93.4% of vessels slowed within 40 nautical miles.
- **Ship Incentive Programs.** The Ports continue to collaborate with other West Coast ports, as well as our local air district on ways to enhance participation in our clean ship incentive programs.
- **At Berth Regulation.** The California Air Resources Board (CARB) is planning to release the Initial Statement of Reasons for the New At Berth Regulation on October 15, 2019, which includes the proposed regulation order. The regulation order will go to their Board on December 5, 2019. The Ports are actively working with CARB on this effort and will continue to meet with CARB and Port stakeholders in Q4 2019.

OTHER

- **Technology Advancement Program (TAP).** In 2018, the Ports issued a Call for Projects (CFP) through the TAP. Four proposals were selected by the Ports. The project contract for the *Effenco Rapid Deployment of Electric Active Stop-Start™ Technology for Zero-Emission Idling from Port Yard Tractors Project* has received both Boards' approvals in Third Quarter 2019. The project contract for *Harley Marine Near-Zero Emission Tugboat Design Project* received POLB Board approval in Third Quarter 2019. POLA will take this contract to their Board in Fourth Quarter 2019. The project contracts for the remaining two Pasha ship projects (one repower and one new build) will go to both Boards for approval in Fourth Quarter 2019. All projects are anticipated to commence in First Quarter 2020.

PLANNED ACTIONS NEXT QUARTER

- Hold a public workshop to solicit feedback on the Ports' Clean Trucks Fund Rate Study and Rate proposal
- Complete the Clean Truck Fund Rate Study and release on the CAAP Website.

- Present to Clean Truck Program Rate proposal to Boards for approval.
Present contracts for consideration by the Boards of Harbor Commissioners for the provision of rate collection services at the Ports
- Present funding recommendations and contracts for consideration by the Boards of Harbor Commissioners for the three TAP Call for Projects.