Neighborhood Truck Traffic

Background

The Inland Empire, including San Bernardino County, plays an important role in the goods movement industry, serving as a gateway between the Southern California ports and the rest of the continental United States.¹ The community of San Bernardino and Muscoy is home to an intermodal railyard, which includes the operation of locomotives, off-road equipment and heavy-duty trucks that contribute to the air pollution in the community. Warehouses near the Interstate-10 freeway just south of this community also attract truck traffic, which passes through the San Bernardino, Muscoy community. Trucks are used to deliver goods to and from railyards, warehouses, and retail stores.

It is important to note that many of the industries in this community rely heavily on regional and local truck transportation,² not only to receive goods, but also as a source of income for those who are hired to transport, store, and distribute these goods. The large volume of trucks adversely impacts the members of this community by creating diesel air pollution, congestion, accelerated deterioration of the local infrastructure (e.g., roads), and noise pollution.² Trucks often travel near and through local neighborhoods to reach their destinations, thus exposing residents to harmful air pollutants.

Community Air Quality Priorities – Idling Trucks, Enhanced Enforcement of Existing Regulations and City Ordinances, Air Pollution from High Volume of Trucks, and Cleaner Technology Options

Diesel air pollution from trucks is an air quality priority for the San Bernardino, Muscoy community. Heavy-duty diesel trucks and vehicles that operate in the community include, heavy-duty trucks, trash trucks, transport refrigeration units, and other commercial vehicles. CSC members asked for regulations and incentives that result in the adoption of zero-emission trucks on the road as soon as possible. CSC members noted that there were many trucks driving through and idling in this community, and also noted that some trucks park for long periods of time on neighborhood streets.³ CSC members recognize the limited resources of the City of San Bernardino, which impacts the City's ability to enforce local ordinances and designated truck routes. The County's policy plan is currently available for public review, which includes designating truck routes as a focus for one of its measures.⁴ The CSC has requested that the AB 617 program increase enforcement of truck⁵ and anti-idling⁶ regulations, and utilize existing traffic information and available technology (e.g., Automatic License Plate Readers (ALPRs⁷)) to help identify potential truck routes and incentives for replacing older, higher-emitting trucks with cleaner technologies.

To address this source, the CSC identified ways to reduce emissions from trucks, such as:

• Regulations and incentives for zero-emission trucks on the road, when commercially available

- Increased enforcement of idling rules to reduce diesel emissions (including during nonbusiness hours)
- Gather existing traffic information from local authorities (e.g., Caltrans) and from available databases, and implement new technology such as ALPR to collect data on truck traffic and assess the potential impact of truck emissions near schools. Provide data to local land use agencies to help prioritize truck routes that need to be reclassified in the general plan^{1,2} or the community plan³. Use data to target truck owners of older, higherpolluting trucks for incentive programs to replace trucks with cleaner technology, including zero-emissions technology when feasible and commercially available
- Additional and new incentive and financing opportunities, especially for small businesses and independent truck drivers, for truck replacements with prioritization of zero-emission technologies once they become feasible and commercially available, and near zeroemission technologies until that time
- Working with the City and County of San Bernardino on efforts to design or redesign truck routes in the community
- Improving the complaint response system to report truck idling or a violation of City or County ordinance regarding air quality
- Enhancing outreach to commercial fleets, warehouses, and other facilities that operate heavy-duty diesel trucks in the community and provide them with information on the availability of zero-emission vehicles and incentive funding opportunities that are available

Ongoing Efforts

U.S. EPA and Statewide Efforts

CARB's Airborne Toxic Control Measure (ATCM) places limits on idling of diesel-fueled trucks.⁶ This regulation is enforced by CARB and South Coast AQMD, and will be a focal point of the enforcement activities in AB 617 communities. CARB continues to address truck diesel emissions reductions through existing and upcoming regulations, such as the Drayage Truck Regulation⁸ and the Truck and Bus Regulation,^{9,10} which include emission standard requirements. CARB is also responsible for enforcing the Commercial Vehicle Idling Regulation, where commercial vehicles (gross vehicle weight rating greater than 10,000 pounds) are prohibited from idling for more than five minutes.¹¹ In addition, to help cities address idling, CARB has developed an "Options for Cities to Mitigate Heavy-Duty Vehicle Idling" guidance document.¹² CARB has many new requirements that are also being considered that would further reduce emissions from trucks. Table 5-1 below illustrates the key upcoming activities from U.S. EPA and CARB.

| Agency | Proposed Action | Expected Decision | Expected Phase-in Period |
|-------------|---|----------------------|--------------------------------|
| U.S. EPA | <u>Cleaner Truck Initiative</u> ¹³ – In response to a petition from the South Coast AQMD, U.S. EPA has committed to updating its truck engine standard to reduce NOx emissions. | 2020-2021 | 2024-? |
| CARB | <u>Drayage Truck Rule⁸ – Updated regulation to transition</u> to zero-emission trucks. | 2022 | 2026-? |
| CARB | Advanced Clean Truck Rule ¹⁴ – Mandate for truck manufacturers to sell zero-emission trucks and would require fleet reporting. By 2030, there will be a zero- emission truck/chassis sales requirement. | 2019 | 2024-2030 |
| CARB | Zero-Emission Fleet Rule ¹⁵ – Would require fleets to transition to zero-emissions. | 2022 | 2024-? |
| CARB | <u>Heavy-Duty Low NOx Rule¹⁶ – Would set new statewide</u> engine standards for trucks. 60-75% NOx reduction between 2024-2026. Additional reductions in 2027 and beyond. | 2020 | 2024-? |

| Table 5b-1: Upcoming Rule Development/Activities from U.S. | EPA and CARB |
|---|--------------|
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South Coast AQMD Efforts

The South Coast AQMD funds projects to help develop zero-emission technologies for heavyduty Class 7-8 trucks (e.g., battery electric, fuel cell). These projects are in the design and demonstration phase and the technologies are not yet commercially available. Additionally, the South Coast AQMD staff administers incentive programs for truck owners and operators to replace older polluting trucks with ones that are cleaner than required.¹⁷ For example, South Coast AQMD's Voucher Incentive Program (VIP) is designed for smaller businesses with fleets of 10 or fewer vehicles that primarily operate within California.¹⁸ VIP helps truck owners with older more polluting trucks reach current emissions standards. Also, the Carl Moyer Program¹⁹ is another resource for truck owners to obtain trucks that are cleaner than required.

Another strategy could be the use of automated license plate readers (ALPRs), which is currently being explored by South Coast AQMD staff. These are high-speed, computer-controlled camera systems that can capture license plate numbers that come into their view. ALPR data, when cross-referenced with DMV data, can provide more information about vehicles (e.g., the chassis model-year and weight class for trucks) which can help build a picture of the fleet makeup that pass a specific location over time. Assumptions for relating chassis model year and engines installed on

a chassis can be used to estimate emissions from heavy-duty diesel trucks. South Coast AQMD staff is exploring the possibility of using this information to notify heavy-duty diesel truck owners that may qualify for incentive programs to replace their truck with newer cleaner models. The use of an ALPR system would require the development of a policy to ensure any data collected using an ALPR system protects the privacy of the registered truck owners.²⁰

South Coast AQMD is actively looking into the feasibility of utilizing the ALPR system to address this community's concerns but must first understand any possible issues or limitations.

Opportunities for Action

The CSC's strategy to reduce the community's exposure to air pollution from trucks is described in the actions below.

| Action 1: Reduce Emissions from Illegal Heavy-Duty Truck Idling in the Community | | | |
|---|--|--|--|
| Course of Action: | | | |
| Conduct focused enforcement for idling trucks in high traffic areas with the highest priority for areas near schools and residential. Other areas prioritized by the CSC include locations near distribution centers and high traffic corridors (e.g., on Juana Street and Cabrera Street, on both streets between Fourth Street and Fifth Street, Kingman Street between Tia Juana Street and Mt. Vernon Avenue, etc.) Collaborate with the CSC to inform community members on how to report idling trucks Provide community outreach on existing complaints/response systems on reporting idling trucks. If existing complaint/response system is determined to be ineffective, assess where improvements are feasible for the existing complaint/response system and improve, as needed. | | | |
| Strategies: | | | |
| Enforcement Collaboration Public Information and Outreach | | | |
| Goals: | | | |
| Conduct, at minimum, quarterly idling sweeps and focused inspections for one calendar year, to be evaluated thereafter with community input Organize two outreach events within the implementation period of this CERP to | | | |

 Organize two outreach events within the implementation period of this CER inform community members how to report idling trucks

Estimated Timeline:

• Beginning Fall of 2019, provide quarterly updates to the CSC

- Beginning Fall of 2019, work with CARB's enforcement team (and CHP) to coordinate, at a minimum, quarterly idling sweeps and focused inspections for a period of one year
 - Based on results of the sweeps, and continued input from CSC members, adjust idling inspections accordingly

| Implementing Agency, Organization, Business or Other Entity: | | | |
|--|--|--|--|
| Name: | Responsibilities: | | |
| South Coast AQMD | Conduct idling sweeps (which may require coordination with local law enforcement) Organize outreach events in collaboration with local entities | | |
| California Air Resources Board (CARB) | Coordinate idling truck inspections with the California Highway Patrol | | |
| CSC Members | Work with the South Coast AQMD, and other local entities to disseminate information on how to report idling trucks in the community (e.g., outreach events, flyers) | | |
| Additional information: | | | |
| Requirements for idling trucks: <u>https://www.arb.ca.gov/enf/diesel.htm</u> Vehicle pollution complaint lines for CARB and South Coast AQMD: | | | |
| CARB: <u>https://ww2.arb.ca.gov/our-work/programs/environmental-complaints</u>, and (800) END-SMOG or (800) 363-7664 | | | |

- South Coast AQMD: (800) CUT-SMOG or (800) 288-7664

Action 2: Reduce Emissions from Heavy-Duty Trucks Transiting the Community

Course of Action:

- Work with the City or the County to identify opportunities to develop enforceable truck routes and establish designated truck parking areas
- Collaborate with local businesses, agencies, and organizations to conduct outreach to truck owners and operators in this community to provide information about community ordinances, restricted truck routes, trucking regulations, and available incentive programs
- Identify South Coast AQMD and other additional incentive funding opportunities to accelerate adoption of cleaner equipment and trucks
- Continue to support the accelerated adoption and prioritization of zero-emission technology based on feasibility, availability, and cost-effectiveness
- Target incentive funds for local small businesses and independent owner/operator (e.g., Voucher Incentive Program)

- Continue to develop Facility Based Mobile Source Measures Indirect Source Rules (see Warehouses and Railyards)
- Provide training on complaint reporting for trucks transiting the community
- Participate in CARB's rule development as an advocate for the community for future amendments to their truck regulations
- Conduct focused enforcement of CARB's Drayage Truck Rule and Truck and Bus Rule

Strategies:

- Incentives
- Public Information and Outreach
- Collaboration
- Rules and Regulations
- Enforcement

Goals:

- Organize one incentive outreach event (e.g., incentive fair, workshop) per year during the implementation period of this CERP, to be evaluated thereafter with community input
- Provide biannual updates on incentive outreach events, CARB's and South Coast AQMD's rule development for truck regulations, and seek community input on progress
- Emissions Reduction Target: emissions reduced from this action contribute to the mobile source incentives target
- Coordinate with CARB staff on using community priorities to focus future enforcement efforts

Estimated Timeline:

- 2020, begin working with the City or the County to identify opportunities to develop enforceable truck routes and establish designated truck parking areas
- First quarter 2020, begin collaborating with local businesses, agencies, and organizations to conduct outreach to truck owners and operators in this community to provide information about community ordinances, restricted truck routes, trucking regulations, and available incentive programs
- Continue to identify other additional incentive funding opportunities to accelerate adoption of cleaner equipment and trucks
- 2020, when incentive programs are available, conduct incentive outreach events and provide quarterly or biannual updates to the CSC
- Continue to develop Facility Based Mobile Source Measures Indirect Source Rules (see Warehouses and Railyards)
- Continue to provide training on complaint reporting for trucks transiting the community
- 2024-2030, CARB's New Regulations phase in

| ٠ | Beginning January 2020, based on findings from idling sweeps, the CSC identified | |
|---|---|--|
| | community priorities, and additional community observations/input from CSC | |
| | meetings, CARB will adjust enforcement in the community to address the identified | |
| | concerns and report back to the CSC biannually for future adjustments | |

| Implementing Agency, Organization, Business or Other Entity: | | | | |
|---|--|--|--|--|
| Name: | Responsibilities: | | | |
| South Coast AQMD | Provide targeted outreach for truck incentive programs in this community Provide updates to the CSC about applications that are submitted for truck incentives that could reduce emissions in the community Provide training to community leaders or organizations that provide application assistance for incentive programs Continue development of Facility Based Mobile Source Measures – Indirect Source Rules Provide training for effectively reporting complaints about heavy-duty trucks with excessive exhaust emissions | | | |
| CARB | Continue rule development for amendments to regulations affecting trucks Conduct focused enforcement of existing Drayage Truck and Truck and Bus Regulations Provide training for effectively reporting complaints about heavy-duty trucks with excessive exhaust emissions | | | |
| County of San Bernardino | Work with South Coast AQMD to provide the community with information about local truck routes, air pollution requirements for trucks, and incentives for cleaner trucks Conduct outreach to local law enforcement about opportunities to enforce truck routes and reduce illegal heavy-duty truck idling | | | |
| CSC Members (including businesses, community organizations, and agencies) | Work with South Coast AQMD to conduct outreach to truck owners and operators Provide application assistance to potential applicants for incentive programs. Seek funding support to provide this service, (e.g., through CARB Community Air Grants). Participate in CARB and South Coast AQMD rulemaking efforts (e.g., attending working group meetings, providing comments on draft rule materials, etc.) for regulations pertaining to trucks | | | |
| Additional information: | | | | |

- CARB Drayage Truck Regulation: <u>www.arb.ca.gov/drayagetruck</u>
- CARB Community Air Grants: <u>https://ww2.arb.ca.gov/our-work/programs/community-air-protection-program/community-air-grants</u>
- CARB Truck and Bus Regulation: <u>https://arb.ca.gov/msprog/onrdiesel/onrdiesel.htm</u>
- Restricted truck routes in the general plans for this community:
 - City of San Bernardino: <u>http://www.ci.san-</u> <u>bernardino.ca.us/pdf/DevSvcs/General%20Plan%20Document.pdf</u>
 - San Bernardino County: <u>http://www.sbcounty.gov/Uploads/lus/GeneralPlan/FINALGP.pdf</u>
 - Countywide Plan: <u>http://countywideplan.com/wp-</u> <u>content/uploads/2019/05/CWP_PolicyPlan_PubReviewDraft_20190515.pdf</u>
 - Community of Muscoy: <u>http://countywideplan.com/wp-content/uploads/2019/05/01_Muscoy_CAG_2019.pdf</u>
- Vehicle pollution complaint lines for CARB and South Coast AQMD:
 - CARB: <u>https://ww2.arb.ca.gov/our-work/programs/environmental-complaints</u>, and (800) END-SMOG or (800) 363-7664
 - -South Coast AQMD: (800) CUT-SMOG or (800) 288-7664

Action 3: Utilize Existing Traffic Information and New Technology to Identify Older Trucks for Incentive Programs

Course of Action:

- Gather existing traffic information from local authorities and other available databases, implement new technology (e.g., ALPR) to collect useful data on truck traffic, and assess the potential impact of truck emissions near schools and residences
- Explore the possibility of using ALPR system along with DMV data to identify trucks that frequently travel through the community that may be older and more polluting than newer trucks, and contact the owner to provide information about incentive funding programs for truck replacement

Strategies:

- Monitoring
- Incentives
- Public Information and Outreach
- Collaboration

Goals:

| Explore the possibility of using ALPR systems in this community and prioritize locations for deployment based on community input Once ALPR systems have been deployed, work with City and County to provide information about the overall results Provide quarterly or biannual updates to the CSC on progress made to collect and use data from these systems Emissions Reduction Target: emissions reduced from this action contribute to the mobile source incentives target 2020, work with CARB and community to prioritize locations for these systems 2021, begin implementation of ALPR systems at priority community locations, compile data and provide quarterly or biannual updates to the CSC Once data is available, review data obtained and begin targeted outreach to owners with older dirtier trucks and dirty trucks that frequently travel through this community to provide information on incentive programs | | | | |
|---|--|--|--|--|
| Implementing Agency, Or | ganization, Business or Other Entity: | | | |
| Name: | Responsibilities: | | | |
| South Coast AQMD | Work with CSC to explore the feasibility of using ALPR systems and prioritize locations for implementation. Once data are received, provide incentives and targeted outreach to truck owners for incentive programs in this community Provide updates to the CSC on implementation of the ALPR system | | | |
| CARB | Continue testing of ALPR systems to improve accuracy. Provide technical assistance to South Coast AQMD to implement these systems | | | |
| City of San Bernardino and County of San Bernardino (Muscoy) CSC members | Work with South Coast AQMD to obtain necessary approvals to install cameras for ALPR systems Work with South Coast AQMD and CARB to prioritize locations for | | | |
| | the ALPR systems | | | |
| Additional information: | | | | |
| CARB's ALPR system: | | | | |
| -Presentation: <u>http://www.aqmd.gov/docs/default-source/ab-617-ab-</u> <u>134/steering-committees/san-bernardino/presentation-may-16-2019.pdf</u> | | | | |
| -CARB's ALPR Privacy and Usage Policy: <u>https://www.arb.ca.gov/enf/arb_alpr_privacy_usage_policy_050317.pdf</u> | | | | |
| -Facebook Live presentation: <u>https://www.facebook.com/southcoastaqmd/videos/1248687388632139/</u> | | | | |

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