

Mountain View School District



Final Report

Prepared for the Mobile Source Air Pollution Review Committee (MSRC)

Under the AB 2766 Discretionary Fund Work Program

Contract MS18110

Submitted by:

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Mountain View School District

El Monte, California

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Acknowledgements:

Mountain View School District (MVSD) extends its thanks and appreciation to the following organizations for their efforts and contributions in the development and completion of the MVSD CNG fueling infrastructure project completed in El Monte California.

- Mobile source air pollution review committee (MSRC) and representatives from the South Coast air quality management District (SCAQMD)
- Jaycox Construction CNG for construction and technical support
- Jesus Sosa with So Cal Gas Company

This report is submitted in fulfillment of grant requirements MS18110 and Mountain View School District CNG Infrastructure Project by Jaycox Construction under partial sponsorship of the mobile source air pollution reduction review committee (MSRC). Work was completed as of October 2019.

Disclaimer:

Statements and conclusions in this report are those the contractor and not necessarily those of the mobile source air pollution reduction new committee (MSRC) or the South Coast air quality management District (SCAQMD). Mention of commercial products, their sources or their uses in connection with material reported is not to be construed as either an actual or implied endorsement of such products.

Project Description and Work Performed:

MVSD is a K-8 district located in the heart of the San Gabriel Valley and each day welcomes approximately 6,000 students through the doors of its 12 schools. The District also serves the educational needs of 500 preschool students and families through the Head Start/State Preschool and Children's Center programs. MVSD transportation department houses 9 CNG buses to provide services to our students on a daily basis. This project has replaced a twenty-plus year old fueling station which has been inoperable for the past ten years.

The Mobile Source Air Pollution Reduction Review Committee (MSRC) provided grant funding support to MVSD in a new compressed natural gas (CNG) station project. This project included the following:

- CNG Mechanical Scope of work
- Disconnection of existing equipment
- Supervision and technical assistance to site staff for the removal of the old units and placement of the new units
- Connection electrical using all existing lines and services
- Supervision of the connection of all gas pipes, regulators and filters to the inlet of the units performed by site staff
- Disposal of equipment
- Removal and disposal of existing time fill posts
- Installation and connection of posts to line
- Pressure testing
- Start-up and Commission
- Site staff fueling and safety and maintenance training

The station is located at 11032 Fineview Street, El Monte California. The station was completed and operational in October 2019. Shortly after completion, MVSD held a grand opening / ribbon cutting ceremony on December 3, 2019 to celebrate the station's completion. City Officials, representatives from MSRC and construction and design planners will be in attendance.

Problems Encountered:

Below is a summary of challenges encountered during the implementation of this project:

No challenges encountered during the implementation of this project but an Upgrade to the gas meter was necessary.

Emissions Benefits:

At full implementation this project continues to reduce emissions and enhance air quality in the Southern California area.

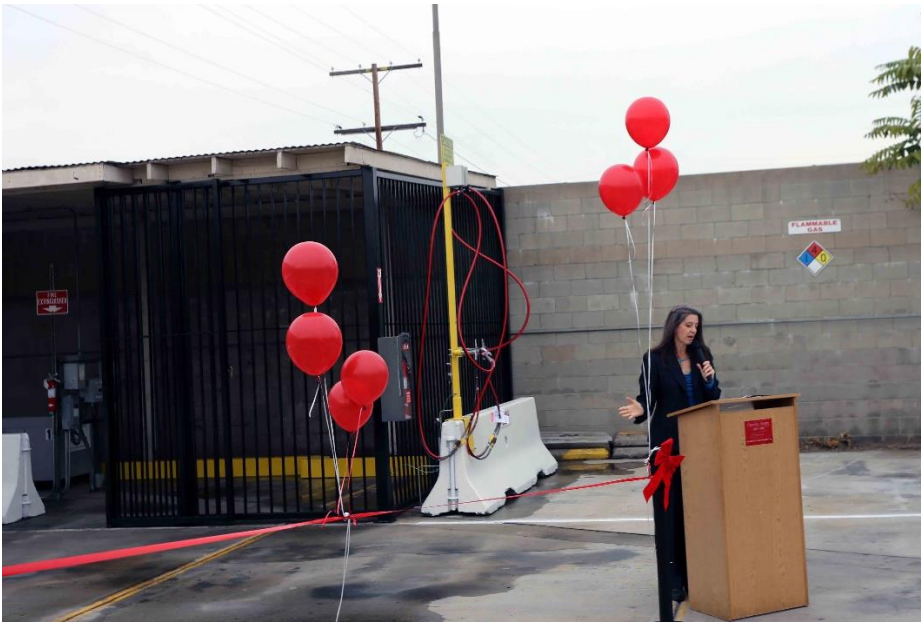
FMQ-8-836 BRC FuelMaker is a 0 oil consumption and it leaves a 0 carbon foot print

Photographs and Outreach:

Press release was sent out and published to our website covering transportation news for our District and our local community. MVSD prepared informational materials for the station to be distributed via a broad range of notification opportunities, included but not limited to:

- Submitting a notice or news release to the local news media
- Publishing an article in a newsletter
- Posting information about the project on our District website
- Held a grand-opening/ribbon cutting event
- Held a press conference

Please see attached photographs









The successful design, construction and reliable operation of the MVSD CNG fueling Station has been demonstrated during the stations demonstration period. The station includes a two (2) FMQ-8-836 BRC FuelMaker Compressor Systems, with four (4) dual time fill post given a total of 8 refueling receptacle with 25 foot hoses to provide simultaneous overnight fueling. Currently we have eight CNG buses being filled nightly. Our previous fueling system was only able to refuel to 3000 PSI. It had been down for the 10 years. Our new refueling system is able to refuel at 3600 PSI.

The station construction and start-up followed well established best practices for CNG implementation. The station was designed to meet all applicable codes and standards for CNG fueling stations.

Our recommendation is to continue to support CNG implementation opportunities for local agencies. Continue to support buy-down incentives. The MSRC's incentive to remove old high emissions vehicles from operation is a great example that can support increased CNG use.

News Release

MOUNTAIN VIEW SCHOOL DISTRICT

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December 4, 2019

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For Immediate Release

Mountain View School District Unveils New In-House CNG Fueling Station

El Monte, CA — The Mountain View School District is continuing its efforts to embody eco-friendly practices that reduce its environmental impact. The newest component of the District's move towards sustainability is the new Compressed Natural Gas (CNG) fueling station that is up and running, enabling the District to now fuel all eight of its CNG school buses in-house. A ribbon-cutting ceremony was held recently to celebrate the completion of the project which began over two years ago with a Clean Transportation Funding grant awarded through the Mobile Source Air Pollution Reduction Review Committee (MSRC).

"After all the hard work and patience it's finally here and having this new fueling station is a tremendous blessing to our Transportation Department and District," said Darin DeKnikker, MVSD's Assistant Superintendent of Business Services.

"For 10 years we have been purchasing our CNG fuel from a third party fueling station at over \$3 a gallon and now we are fueling our buses in the transportation yard at significant cost savings of a little over \$1 per gallon. We are grateful to MSRC and their affiliates for the grant funding and we will continue to go after every opportunity we can for improvement for our students and District," he added.

The savings will also be felt in the area of time and effort as bus drivers no longer have to travel to Irwindale to fuel their buses.

The District was proud to welcome representatives from the MSRC, the South Coast Air Quality Management District (AQMD) and Jaycox Construction CNG, all who applauded the District's efforts toward clean energy. Additionally, members of MVSD's transportation and maintenance staff were on hand to celebrate the ribbon cutting.

"We congratulate the Mountain View School District for its efforts in clean energy," said Cynthia Ravenstein, Contracts Administrator for Clean Transportation Funding from the MSRC. "The new fueling station is a great step forward in sustainable energy and we appreciate the district's commitment to lowering the greenhouse gas impact."

According to Ravenstein, since 1990 the MSRC has invested \$440 million in hundreds of clean transportation initiatives and through these clean energy projects, removed 13,000 tons of air pollution from the skies of Southern California.

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CNG Fueling Station

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“Operating school buses with CNG is very beneficial to the environment and to students,” said Ravenstein. “Diesel exhaust is toxic and children are sensitive receptors so it’s important to keep them away from it. CNG buses are cleaner, quieter and provide a safe setting for transporting students.”

The new fueling station was constructed and installed by Jaycox Construction CNG with MVSD’s maintenance staff completing the exterior work including electrical, plumbing, painting and encasing.

“It’s great to work with Mountain View,” said Virgil Jaycox, owner of Jaycox Construction CNG. “I’m excited I got to be part of this project which will allow all eight of the District’s CNG buses to be fueled at the same time, overnight, so they will be ready to roll out for the school day the next morning.”

MVSD’s Bus Mechanic, Erik Meza likes working on both the CNG and electric school buses and knows the new in-house fueling station will be great for the department.

“The fueling station will not only save us money on the fuel but I’m excited that our drivers won’t have to spend an hour driving the 15 miles to fuel up, saving time and wear and tear on our buses. It works out to about a 1000 miles a year saved on the tires which is great.”

The CNG Fueling Station infrastructure grant was the second of three grants MVSD has received to support its efforts for clean energy. The first grant resulted in two electric school buses for the fleet and the third grant, coming early next year, will provide three additional all electric school buses.

Board of Education Clerk, Adam Carranza shared that the Board loves these opportunities to do something extra for the students it serves and adding the environmental angle is even better.

“We are a very energy conscious Board and anything we can do to lower our carbon footprint and keep our students safe is great. We are grateful to the MSRC, AQMD, Southern California Gas Co and the other entities that fund grants for these projects,” he said.

MVSD is proud to transport students in CNG buses which emit 40%-86% less particulate matter into the air compared to older diesel school buses. Data shows that one CNG school bus can save the equivalent of the emissions produced by roughly 35 passenger cars on the road.

Concluding the ribbon-cutting ceremony, MVSD Superintendent, Lillian Maldonado French thanked each person involved in the project.

“This is an amazing day to celebrate this achievement, the hard work of our team and to confirm Mountain View’s commitment to green energy and providing safe and sustainable transportation for our students,” said French.