CONTRACT NUMBER: ML 11029

CITY OF SANTA ANA
PUBLIC WORKS AGENCY, FLEET SERVICES

FINAL REPORT

03-01-2023

Prepared for the Mobile Source Air Pollution Review Committee (MSRC) under the AB2766 Discretionary Fund, Local Government Partnership Program

ACKNOWLEDGEMENTS

We are grateful to our staff here at the City of Santa Ana who over the years has worked diligently in the execution of this agreement. We are also appreciative for the valuable assistance the Air Quality Management District (AQMD) and the Mobile Source Air Pollution Reduction Review Committee (MSRC) have provided the City throughout this project.

This report was submitted in fulfillment of ML 11029 and the
Mobile Source Air Pollution Reduction Review Committee
CLEAN TRANSPORTATION FUNDING, LOCAL GOVERNMENT MATCH
FY 2010-2011 PROGRAM TO FINANCE ALTERNATIVE FUEL INFRASTRUCTURE,
by the CITY OF SANTA ANA under the partial sponsorship of the
Mobile Source Air Pollution Reduction Review Committee (MSRC).
Work was completed and the corresponding invoices paid by June 7, 2016.

The statement and conclusions in this report are those of the contractor and not necessarily those of the Mobile Source Air Pollution Reduction Review Committee (MSRC) or the South Coast Air Quality Management District (South Coast AQMD). The mention of commercial products, their sources or their uses in connection with material reported herein is not to be construed as either an actual or implied endorsement of such products.

PROJECT DESCRIPTION

On September 7, 2012, the South Coast Air Quality Management District (AQMD) approved MSRC contract ML 11029. In the contract's Statement of Work, the City of Santa Ana (Contractor) was to proceed with three alternative fuel infrastructure projects:

1. Install a Liquid Petroleum Gas (LPG) fueling station
2. Expand existing Compressed Natural Gas (CNG) fueling station, and
3. Perform modifications and upgrades to the Fleet Maintenance Facility

The contract included matching the City of Santa Ana's project costs for the following, maximum amounts by project: $75,000 for the LPG Fuel Station, $120,000 for the CNG Fueling Station, and $67,500 for Fleet Facility Modifications. The aggregate amount of the approved contract, ML 11029, was $262,500, with a term date of March 7, 2020.

LPG FUELING STATION

To prepare for a readily accessible way to fuel our growing inventory of newly purchased and modified liquid petroleum gas fueled vehicles, the City of Santa Ana, in 2013, entered into agreements with contractors. The agreements comprised for services to design, construct, install, and provide fuel for a new LPG fueling station, located in the City's Corporate Yard. The City made its final payment on the completed project in 2016. Subsequently, staff submitted to MSRC a Status Report, along with an invoice for $75,000. The City recorded receipt for the full amount requested on May 12, 2017. Consumption of liquefied propane by city vehicles has recently been around 15,000 gallons annually. LPG burns cleaner than petrol, producing fewer emissions into the environment. According to www.researchgate.net, LPG vehicles reported lower hydrocarbon (40%), carbon monoxide (60%), and carbon dioxide emissions compared to gasoline-powered vehicles. Additionally, there is virtually zero particulate matter, and a lower amount of nitric oxide emitted by liquefied petroleum gas.

CNG FUELING STATION IMPROVEMENTS

In 2014, in-house stakeholders with CNG contractors began discussions on desired improvements to the existing CNG fueling station. A considerable component of the discussions was how to expand use of the improved fueling station to outside consumers. Public access presented several items of concern: liability and security of the area and equipment; infrastructure improvements allowing for access by multiple users; tracking and billing for fuel; and ongoing maintenance of the facility. Staff met repeatedly over the years examining these concerns. The evolving plans to proceed with the project translated to an expanded Scope of Work, and resulted in costly anticipated project costs that were beyond our means to complete by the revised term date of March 6, 2023. Unable to secure additional funding, staff again requested modification to the contract in 2022. SCAQMD then approved the removal of the CNG Station Improvement Project and its related cost-share funding of $120,000.

FLEET FACILITY IMPROVEMENTS

Also in 2022, the City requested Modification to MSRC ML 11029 to remove the Fleet Facility Improvements Project for $67,500. Project planning and the modifications to the facility did not occur. Major changes in management of the City, department, and division, over the years, made funding for the City's share of the improvements unreliable. Additionally, reduced key staff positions, and increased demands for Fleet services made planning and managing the project less of a priority. On December 14, 2022, SCAQMD approved staff's requested modification.

PUBLIC OUTREACH

A requirement in contract ML 11029 is for the contractor to develop and implement a Public Outreach Plan. In 2013, the City developed a core public outreach plan for green

initiatives. In the plan, City addressed informing the public of "green" eco-friendly infrastructure projects in the community, and the funding of these projects by funding agencies (such as AQMD) through taxes and fees. Upon SCAQMD's approval of the plan, staff began its outreach within City Hall, and outside to the community. With the assistance of a consultant, staff created and distributed informational pamphlets, flyers and articles via the City's website, electronic mail, and printed newsletters.

SUMMARY & CONCLUSIONS

In 2012, MSRC awarded the City of Santa Ana contract, ML 11029, for three clean air infrastructure projects totaling $262,500 in matching funds from the South Coast Air Quality Management District. Since then, City staff has completed and received reimbursement for the installation of a liquefied petroleum gas fueling station. At the request of the City and approved by SCAQMD, the other two projects: Expansion of the CNG Fueling Station, and Improvements/Upgrades to the Fleet Maintenance Facility were removed from the agreement after complications arose in funding the expanding scopes of work, and managing the projects through completion. City staff applied for other grant opportunities, and internal supplemental funding for the projects, but was unsuccessful. This made completion of the projects unmanageable for the City by the extended term date of March 6, 2023.

While we were not able to complete all the project requirements included in ML 11029, the LPG Fueling Station install has proven to be beneficial for the City: convenient, economical, and a reduction of harmful emissions released into the environment. Such positive impacts, combined with emerging funding incentives has the City of Santa Ana even more determined to proceed with our RNG/CNG fueling station and Electric Vehicle Charging station projects, and to increase our alternative fueled vehicle inventory to meet government directives for a cleaner environment.